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Profile

A highly motivated, skilled, and dedicated software engineer with broad experience of systems and application development, analysis, and integration. Possesses a high level of technical literacy and business acumen combined with superb communication skills leading to the delivery of perfectly tailored customer solutions. Able to work well on own initiative, as well as enjoying collaborative work as part of a successful and productive team. Quick to grasp new ideas and concepts and is always looking for the opportunities to learn new skills, technologies, and ideas to refine his expertise and bring additional value to any organisation.

Skills, Languages, Additional Information

Software and Systems Architecture, Systems Analysis and Design
Project, Product and Technical Documentation

Team Leadership, Mentoring, Onboarding, Peer and Code Reviews
Process, Policy and Procedure Development

Software and Web Development, API Development, and Integration
Framework and Platform Creation, Microservices Architecture

Test Driven Development, Continuous Integration/Continuous Deployment
Level 3 and Level 4 Technical Support

JS/TS, Node, Nest.js, Express, Fastify, Cordova, Jest, Cypress, Swagger, RabbitMQ
HTML, CSS, Vue, Svelte, React, Next.js, Webpack, Stable Diffusion AI

SQL Server, MySQL, MongoDB, Elasticsearch, Fauna, PostgreSQL

Linux, Windows, Windows Server, MacOS
Docker, Containers, Kubernetes, Virtualisation

AWS, Azure, GCP, Digital Ocean, Cloudflare

JIRA, Git, Bitbucket, GitHub, GitLab, Azure DevOps, TFS, SVN, Basecamp, Trello

English, Russian, Latvian
Driving Licence

Table Tennis, Fintech, Modern Classical Music, Science and Technology

Senior/Lead Software Engineer   *Sep 2020 – Apr 2022*
Satoshi Systems – PrimaryBid – Velocity Black

➢ **Design, development and implementation of Platforms and Frameworks**

- ✓ **Bespoke CI/CD Framework** – developed a custom CI/CD framework for GitLab written in Bash to migrate the whole development platform from Bitbucket to GitLab. Features custom content hash calculation, robust build, test, and deployment dependency definition system and human-readable semantic docker image tagging, efficient docker image cashing strategy and multi-stage deployment gates. As a result, CI/CD pipeline execution time was reduced from 1 hour on average to 3 minutes in some cases and down to 20 minutes when every single dependency has been triggered that causes rebuilding of all the images and retesting of the entire platform.
- ✓ **Automated Flight Booking System** – developed specific libraries, services and a framework that abstracts GDS/Duffel API's and allows for flight information surfacing, querying, and filtering as well as booking the desired flight. Features custom query builder, data rotation, filtering, and normalisation engine.
- ✓ **Automated Hotel Reservation System** – researched, designed, built a roadmap, and produced necessary technical and stakeholder documentation for an automated Hotel Reservation System so that the team can start work on the initial proof of concept prototype.
- ✓ **Taskable Backend Platform** – developed and oversaw the team working on a task marketplace platform. The platform would allow anyone to post a task and then agents could bid on a task and get paid the agreed amount after the task completion. The project featured microservice architecture, Docker/Kubernetes based development, TDD/DDD practices, CI/CD based rapid feedback cycle and sprint-based release schedule.
- ✓ **Kestava Backend Platform** – developed and oversaw the team working on a microservices-based platform that would measure Social Return on Investment (SROI) score based on social, economic, and environmental impacts derived from financial statements. The platform was later used to offer the customer various plans to offset their carbon dioxide emissions. The project featured microservice architecture, Docker/Kubernetes based development, TDD/DDD practices, CI/CD based rapid feedback cycle and sprint-based release schedule.

➢ **Development of reactive, responsive web and mobile applications**

- ✓ **Taskable Web App** – developed and oversaw the team working on a task marketplace progressive web app. The app would interface with the Taskable Backend Platform do deliver rich and responsive experiences to both Customers and Agents.
- ✓ **Kestava Web App** – developed and oversaw the team working on a SROI Calculator progressive web app. The app would interface with the Kestava Backend Platform do deliver rich and responsive experiences to customers.

➢ **Third party provider integration and standardisation**

- ✓ **GDS, Sabre, Duffel, Slack, GitLab, Stripe Platform Marketplace**

➢ **Building Teams and setting Technical Direction**
➢ **System Analysis, Design and Technical Documentation**
➢ **Developer Interviewing, Onboarding, Training and Mentoring**
➢ **Legacy system Modernisation, Change Management and Migration**
➢ **Implementation and Integration of new business processes into the existing workflows**
➢ **Level 3 and Level 4 Technical Support**

Work Experience (previous)

Senior Developer at Killik & Co   *Apr 2019 – Sep 2020*
Systems Developer at Killik & Co   *May 2017 – Apr 2019*

➢ **Design, development and implementation of Platforms and Frameworks**

  ✓ **Merlin 2.0** – developed a brand-new microservices Platform/Framework. It standardises and speeds-up development of current/future microservices and allows anyone to easily pick up and start developing microservices. Supports route definition, multiple applications (SILO, MyKillik etc.), scopes, permissions, request signatures, much improved logging, multitude of authentication methods, caching and more.
  ✓ **Scopes** – developed scope engine/framework that allows switching contacts/accounts on the fly. Allows applications to have multiple contact/account types such as Individual, JISA, SIPP etc. Scope features permission sets for contact/account types.
  ✓ **Permissions** – developed permission engine/framework that allows to assign permission sets to customer app accounts (such as SILO, MyKillik). Provides enhanced security as you can restrict certain functionality based on account type and status. Enables A/B testing and gradual roll out of new features.
  ✓ **Sockets** – developed socket engine/framework that enables inter-process communication and subscriptions. The framework is easy to use and allows for rapid real-time application development.
  ✓ **Merlin Authentication Framework** – developed authentication framework that supports different authentication methods such as OAuth2, Username/Password, One Time Password, 2FA workflows (email, SMS, phone call).
  ✓ **Third-Party Integration Framework** – developed Integration Framework with pluggable provider architecture and normalized API inputs/outputs and aggregations e.g. bank transactions, account information etc.
  ✓ **System Bot Framework** – developed a chatbot framework on top of Webex API, that allows to plug in commands and events/event triggers into the bot that logs out critical information, system updates and can be queried about system status.

➢ **Development of reactive, responsive web and mobile applications based on Vue, Node and Cordova**

  ✓ **SILO Investment App** – allows a client to open and manage an investment account, automatically invests into an expertly managed portfolio based on your risk appetite. App incorporates highly customisable Smart Rules that can integrate with a bank account (or any other provider) and enable real time saving.
  ✓ **Customer Onboarding Dashboard** – visualises and manages customer onboarding process, includes AML search, Anti-Impersonation (Paycasso/Jumio) check, Payment Instruction Setup (DD), Initial Boosts, Welcome Pack generation and CRM Client Creation.
  ✓ **AML Smart Search** – front end for AML check API, conducts the check and saves report against a contact.
  ✓ **Personalised Email** – marketing lists/templates/merge fields/attachments/email customisation.
  ✓ **Pre-Trade Advice Report Builder** – generates advice/cost disclosure report and saves it against a contact.

➢ **Development of Microservices based on Node, RabbitMQ and Fastify**

  ✓ **Auth, Logger, Device, Document, Fees and Charges, Helpers, Metadata, OAuth, Jumio, Paycasso, Referral, Webhook, Scope, Support, Site, Transactions.**

➢ **Third party provider integration and standardisation**

  ✓ **Smartsearch, Paycasso, Jumio, TrueLayer, Twilio, Firebase, Yodlee, Bloomberg, Monzo, Starling.**

➢ **Implementation and Integration of new business processes into the existing workflows**
➢ **Level 3 and Level 4 Technical Support**
➢ **Developer Onboarding, Training and Mentoring**

Systems Analyst at The ECS Group   *Oct 2014 – May 2017*

➢ **Analysis, Design, Implementation and Maintenance of Enterprise Level Business Systems**

  ✓ **ECS Auto** – developed an online platform that features a bespoke Online Content Management System and Web App Framework to deliver highly specialised content and interactive experiences to internal and external customers.
  ✓ **Planning System** – developed a bespoke web-based planning, scheduling and program management system that enables tracking of all the company activities in real time. Used as a single source of truth and drives most business processes. Features Individual and Team Calendars (with multiple views Year, Month, Week, Day), Milestone System, Reminders, Expenses, Attachments, Alerting System, Notes, Client Lookups, Activity Linking, Task Lists, Holiday Booking System, TOIL, Messaging and Approval System, Dealer Schedule Integration and Real Time Reporting on Individual/Team/Management/Company/Group levels.
  ✓ **Dealer Schedule** – developed an interactive dashboard and a set of algorithms and processes to analyse dealer performance and suggest/predict the appropriate actions to undertake to improve the overall dealer performance. Considers latest and historical dealer performance (PI, KPI) as well as past interactions with the dealer alongside the current and historical regional trends and budget/resource constraints for the upcoming quarter. Allows forecasting and adjustment of all the activities for the upcoming quarter/year based on the set rules and budget constraints. Includes Individual/Team/Company/Group level activity management dashboard.
  ✓ **Carroceros** – developed a bespoke VBA/MySQL auditing/reporting tool for Iberian market that integrates directly with ECS Auto platform and enables real time audit reporting.
  ✓ **Warranty Claim Importer** – developed a tool to import and normalise warranty claim data from various sources, locales, and formats (API, Access Databases, CSV, Excel, XML) from all the European markets into a centralised database that drives Reporting, Dealer Schedule, Planning System, and the Auditing Process.
  ✓ **GarPro** – enhanced VBA based legacy auditing tool with an ability to download claim data and export completed audits to ECS Auto. Audits are automatically processed on the back end and Audit Report is saved against the dealer.

➢ **Database Administration (SQL Server 2014, MySQL)**
➢ **European Warranty Data Storage, Migration, Processing and Visualisation**

  ✓ Processed more than a million warranty claims a year.

➢ **Development of bespoke/ad hoc IT based Solutions for Customers throughout Europe**

  ✓ **Nissan, Datsun, Infiniti, Kia, Renault, Mitsubishi.**

➢ **Legacy Systems Migration**

  ✓ Migrated MS Access/Excel based solutions into SQL Server and replaced VBA front ends with Web based interfaces where appropriate.

➢ **Automation of day-to-day enterprise activities**

  ✓ Saved thousands of man-hours each year by automating repetitive administration tasks.

➢ **Level 3 and Level 4 Technical Support**
➢ **New Starter Training and Technical Mentoring**
➢ **First Aid at Work**

Awards: Driving Business Award 2016 for creating company's Online Platform

Education and Qualifications

University of Essex, UK   *Oct 2011 – Jun 2014*
BEng Computer Networks

Was a team leader for three consecutive group projects and played a key role in their success. Was responsible for coming up with requirements specification and design for the android elderly healthcare app and for refactoring the code to adhere to common OO development paradigms.

Modules Studied: *Professional Development, Mathematics for Computing, Introduction to Programming, Object-Oriented Programming, Introduction to Databases, Web Development, Network Fundamentals (CCNA1 Fundamentals), Digital Systems Architecture, Group Project & Industrial Practice, Software Engineering, Databases and Information Retrieval, Human Computer Interfaces and Visualization, C++ Programming, Operating Systems, Computer and Data Networks, Computer Security, Individual Project, Formal Methods, Intelligent Agents, Large Scale Software Systems and Extreme Programming, Network Engineering, Network Security, Distributed Computing Systems.*

Boston College, UK   *Oct 2007 – Jun 2008*
Access to Higher Education

Developed custom cinema/theatre ticket booking/printing software optimized for touch and capable of producing custom invoices.

Modules Studied*: IT, Advanced Mathematics, Mathematics, Computing, Study Skills, English.*

Secondary School No 7, LATVIA   *Sep 2005 – Jun 2007*
A Level

Participated in meetings regarding modernisation of the IT Class equipment and Internet Service, was responsible for basic network architecture design, research of the current PC market and finding appropriate ISP for the project. Was tasked with developing a training program for the teaching staff to educate them on how to operate an Electronic Interactive Blackboard and produce interactive lessons for it.

Modules Included: *IT, Latvian, Mathematics, History, English.*

Secondary School No 12, LATVIA   *Sep 1999 – June 2004*
20 GCSE's

Developed a flexible student testing software which enabled creating test questions on the fly and could produce instant grades and feedback. Developed a digital version of the "Who wants to be a millionaire" game. Helped with the development of the teaching program for the QBasic by adding motion to the syllabus.

Modules Included: *IT, Mathematics, English, Russian, Latvian, Physics, Sport, History, Biology, Geometry.*