

Benjamin Serec

Senior Software Engineer

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👤 About me

Software engineer with 5 years of experience designing and delivering end-to-end software systems, from embedded firmware to cloud infrastructure and web applications. Experienced in building and operating IoT platforms at scale, leading engineering teams, and owning products throughout their entire lifecycle. Strong background in Typescript Go, Kubernetes, distributed systems, and modern web technologies, with a focus on scalable architectures, reliability, and automation.

🧰 Work experience

Senior Software Engineer, Agitron 15/12/2021 – Present | Maribor, Slovenia

- Led a team of engineers by driving technical architecture, reviewing code, mentoring developers, and onboarding new team members.
- Owned the development of an end-to-end IoT platform spanning ESP32 firmware, backend services, web applications, and cloud infrastructure.
- Developed firmware for ESP32-based e-paper devices, supporting multiple display models, OTA updates, and optimized rendering pipelines.
- Designed and implemented integrations with third-party systems, enabling reliable synchronization between customer platforms and internal services.
- Built an automated ordering platform using MQTT-connected IoT scales, processing real-time events and triggering customer orders.
- Designed and operated infrastructure serving more than 50,000 connected IoT devices and high-throughput MQTT messaging with a focus on scalability and reliability.
- Built and maintained CI/CD pipelines using GitLab, automating testing, linting, and deployments.
- Managed Kubernetes deployments, observability, and monitoring using Grafana, implementing alerting and improving operational reliability.
- Optimized database performance through query refactoring and indexing, significantly reducing response times.
- Developed cross-platform desktop applications with Electron for kiosk and point-of-sale environments.

Full stack engineer, Epi spectrum 01/09/2021 – 01/03/2022 | Maribor, Slovenia

Created a react.js application for national laboratory of health, environment and food Worked on Node.js backend

🎓 Education & Training

Bachelor's degree, Computer Science and Information Technologies, Faculty of Electrical Engineering and 01/10/2017 – 01/10/2021 | Maribor, Slovenia

Computer Science, University of Maribor

Core Technologies

Languages

Typescript, Go, C++

Infrastructure

Kubernetes (Helm), Docker, GitLab Pipelines, Oracle cloud, Ansible

Messaging

Nats, Mqtt

Backend

Node.js (GraphQL, TypeORM), Go

IoT & Embedded

ESP32, Nordic, Bluetooth

Databases

PostgresQL, Redis, MongoDB

Frontend

React, Next.js

Mobile

React Native

Language Skills

Slovenian

Mother tongue(s): Slovenian

English

C1 level

Projects

Agitron Warehouse

IoT-based warehouse management platform integrating smart scales with cloud services via MQTT. Designed to process real-time weight events, automate inventory tracking and replenishment, and reliably manage communication with large fleets of connected devices.

Agitron Orbis

Smart office platform that synchronizes calendar information with e-paper room displays and nameplates. Integrated multiple calendar providers to deliver real-time meeting schedules and room availability through a scalable IoT infrastructure.

Pregl Digital

Digital laboratory management platform for chemical consumption tracking, equipment reservations, and service management. Developed backend services, web and mobile applications, and integrations with e-paper devices, focusing on scalable architecture and reliable data synchronization.

Agitron Virtual Store & Signage

Interactive retail kiosk and digital signage platform enabling customers to browse and purchase products from virtual shelves. Developed Electron-based kiosk software, integrated IoT smart scales for dynamic content delivery, and implemented offline-capable workflows for reliable in-store operation.

Personal Projects

Self hosted kubernetes cluster

Built and maintain a bare-metal, self-hosted Kubernetes cluster at home, deploying and managing multiple self-hosted services with focus on high availability, networking, and infrastructure automation.

Cryptocurrency web app

App that compares prices between two exchanges (Uniswap and gate.io) and alerts user when there is a big price difference.