Igor Marković

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Technical Skills

Programming languages: JavaScript, TypeScript, Python, C++, PHP
Frameworks & tools: Node.js, React, Next.js, Express, Prisma, Tailwind CSS, Jest, Sass, ROS, Gazebo, Vim
Software & systems: Linux, Git, AWS, PostgreSQL, SQLite, CAD (Fusion), Photoshop
Hardware integration: Embedded systems, IoT, BLDC motors, IMUs, RTK GPS, encoders

Work Experience

Full Stack Developer Mar 2024 – Aug 2025
Woop - Contract

- Owned core features of a greenfield Node.js, Express, React, PostgreSQL application, automating workflows to save staff tens of hours of manual work per week
- Designed and implemented RESTful APIs and optimized database interactions to improve performance by up to 80% for complex queries
- Automated schema synchronization and validation in CI/CD pipelines, eliminating integration errors and improving release reliability
- Deployed and maintained services on AWS, offloading resource-intensive workloads such as image processing to Lambda to reduce core server load
- Collaborated with a wide range of stakeholders to refine requirements and deliver user-focused features iteratively

Software Engineer Oct 2020 – Dec 2023
Peek Robotics

- Architected, built, and tested prototype robotic systems across the full development cycle, supporting rapid iterations that enabled early stakeholder demonstrations
- Developed software systems and web-based tools using Node.js and React to facilitate remote monitoring, management, and navigation of autonomous outdoor robots
- Integrated sensor data (IMUs, GPS, battery, camera) into user-friendly web dashboards for real-time monitoring, providing instant system status checks and cutting verification time from minutes to seconds
- Integrated software with hardware subsystems in collaboration with cross-functional teams, enabling reliable operation in varied outdoor conditions
- Onboarded and mentored new engineers, standardizing practices and improving team productivity

Robotics Research Engineer Apr 2019 – May 2020
UoA CARES

- Developed web, audio and visual interfaces with React for mobile robot management, allowing visitors to interact with a guide robot with no prior training
- Integrated backend services using Flask to coordinate multi-robot navigation and task scheduling
- Connected robotic systems to web services enabling real-time building automation (elevator control, door systems), eliminating the need for manual user intervention

Education

University of Auckland 2015 – 2018
Electrical Engineering BE (Hons.)