

BARIS AYDEMIR

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PROFESSIONAL EXPERIENCE

Software Developer | Geotek Automation, Izmir, Türkiye October 2024 - Present

- Developed a comprehensive mobile automation application that optimizes workflows from sales to production for a 700-ton capacity feed factory using React Native and NestJS technologies.
- Integrated TypeScript and Redux state management to ensure robust code architecture and predictable state changes throughout the application.
- Adopted test-driven development practices, achieving 80% code coverage and reducing production errors by 35%.
- Developed a drag-and-drop based operator interface with touch screen compatibility using C# and WPF, allowing technicians to easily program complex operation steps for Mitsubishi robot arms.

Full Stack Developer | Luna Software, Toronto, ON August 2021 – June 2024

- Designed responsive business intelligence dashboards that visualize real-time sales data to improve retail customers' decision-making processes using React.js, TypeScript, and Redux technologies.
- Developed Node.js and NestJS-based RESTful APIs connecting frontend interfaces to PostgreSQL and Amazon Redshift data warehouses, serving more than 15 retail stores.
- Set up scalable cloud infrastructure using AWS services such as EC2 and S3, reducing operational costs by 30%.
- Developed custom Docker solutions ensuring consistency across development and production environments, increasing team productivity by 25%.

Full Stack Developer | MimiQ, San Francisco, CA September 2020 – April 2021

- Designed and developed scalable backend infrastructure for IoT devices based on LoRaWAN protocol, enabling simultaneous connection and data transmission for 100+ devices.
- Successfully managed the transition from Firebase to ASP.NET Core (C#) architecture, improving system response times by 85%, optimizing monthly infrastructure costs, and increasing data processing capacity.
- Established comprehensive CI/CD processes to enhance software quality standards; reduced error rates by 40% with automated testing processes and code reviews.
- Redesigned the company's corporate website (mimiQ.io) using modern web technologies; increased organic traffic volume by 30% with SEO optimization and user experience improvements.
- Developed a real-time data collection and analysis system for IoT devices; increased device connection stability by 25%, minimizing downtime in the field.

KEY SKILLS

Languages: Turkish (Native), English (C2)

Programming Languages: JavaScript, TypeScript, C#, Python

Frontend: React, React Native, NextJS, Redux, HTML5, CSS3, WPF

Backend: Node.js, NestJS, Express.js/Fastify, ASP.NET Core, RESTful APIs

DevOps: Docker, AWS (EC2, S3, Lambda, API Gateway), CI/CD, Git

Database: PostgreSQL, MongoDB, SQL Server, Amazon Redshift

Testing: Jest, React Testing Library, Test-Driven Development (TDD)

Machine Learning: PyTorch, TensorFlow

EDUCATION

Computer Programmer Diploma | Georgian College, Barrie, ON

2017 - 2019