

ERAY AYDIN

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İzmir/Menderes - Türkiye

SOFTWARE DEVELOPER

With 5 years of industry experience, I've evolved into a Senior Software Developer who loves solving complex problems. I'm comfortable working on both the front and back ends of a project, and I take pride in understanding the infrastructure that keeps everything running. For me, software development is about more than just code; it's about building seamless experiences and ensuring that every layer of an application works in harmony.

STRENGTHS AND EXPERTISE

Software Architecture & Cross-Platform Development

- Modern Web & Mobile Ecosystems:** Expert in building high-performance, SEO-optimized web applications with React/Next.js and cross-platform mobile solutions using React Native. Proficient in diverse frameworks like Svelte and Vue to deliver versatile UI experiences.
- Scalable Backend Architectures:** Deep experience in designing microservices and robust server-side logic using Node.js (Fastify, Express) and Python (FastAPI, Django), focusing on high execution speed and maintainability.
- AI & Tooling Integration:** Skilled in implementing the Model Context Protocol (MCP) to build extensible AI-driven ecosystems and streamline developer workflows.

Data Modeling & Management

- High-Performance API Paradigms:** Extensive proficiency in designing type-safe and efficient communication layers using GraphQL, RESTful APIs, and RPC (gRPC, tRPC) for complex distributed systems.
- Data Persistence & Streaming:** Skilled in managing polyglot database environments including PostgreSQL, MongoDB, and Redis, combined with search optimization via Elasticsearch and real-time event streaming with Kafka.
- System Design & Optimization:** Strong foundation in designing large-scale systems, focusing on data integrity, low latency, and efficient resource utilization.

Cloud, DevOps & Infrastructure

- Containerization & Orchestration:** Deeply familiar with Docker and Kubernetes for building, deploying, and scaling microservices in production-ready environments.
- Cloud & Server Management:** Hands-on experience with AWS (Lambda, EC2) and Linux (Ubuntu) administration, focusing on automation, security, and system reliability.
- CI/CD & Automation:** Building robust deployment pipelines to ensure seamless delivery and high availability across the entire stack.

TECHNICAL TOOLKIT

Frontend & UI: React, Next.js (SSR/SSG), Tailwind CSS, MUI, React Native, Svelte, Vue, State Management.

Backend & Runtimes: Node.js (Fastify, Express), Python (FastAPI, Django), Microservices Architecture.

APIs & Data: GraphQL, RESTful APIs, RPC (gRPC, tRPC), PostgreSQL, MongoDB, Elasticsearch, Redis, Kafka.

Cloud & DevOps: AWS (Lambda, EC2, S3), Docker, Kubernetes, CI/CD Pipelines. Operating Systems: Linux (Ubuntu/Debian) Server Administration, Shell Scripting.

Specialized & Tools: MCP (Model Context Protocol) Integration, Git, System Design.

PROFESSIONAL EXPERIENCE

Egebilgi

September 2024 - Present

Software Developer

- Lead System Architect for "estorepark": Spearheaded the end-to-end system design and development of estorepark, a scalable e-commerce infrastructure. Designed the core architecture to support high-traffic, multi-tenant environments.
- Microservices & Messaging: Architected the platform's backend using Node.js (Fastify) and Python (FastAPI), implementing Kafka for event-driven messaging and gRPC/tRPC for high-speed internal service communication.
- Data & Search Optimization: Integrated a polyglot persistence layer using PostgreSQL for transactional data and Elasticsearch to power advanced product search and real-time analytics for the estorepark ecosystem.
- Cloud-Native Deployment: Orchestrated the deployment of the infrastructure on AWS using Kubernetes and Docker, ensuring 99.9% availability through automated scaling and CI/CD pipelines.
- AI Integration: Implemented AI-enhanced features utilizing the Model Context Protocol (MCP) to automate merchant workflows and improve platform-wide developer productivity.

CaWEB

August 2022 – June 2024

Software Developer

- Note: Promoted from Outsource Developer (Aug 2022 – June 2023) to Full-time Staff (Sept 2023 – June 2024) based on high-performance delivery.
- Developed complex web scraping solutions and data pipelines, processing large datasets for business intelligence and API integrations.
- Engineered responsive frontends and scalable RESTful APIs, bridging the gap between user requirements and technical implementation.
- Took ownership of server management, gaining deep hands-on experience in Linux (Ubuntu) administration and initial cloud deployments.

Falkel

June 2023 – September 2023

Software Developer (Contract based)

- Designed and developed a SaaS platform specifically tailored for e-commerce sellers, focusing on automation tools and inventory management.
- Built a complete product from scratch in a short-term, high-impact environment, delivering a production-ready tool that streamlined seller operations.
- Focused on performance and scalability, ensuring the tool could handle the dynamic data requirements of diverse e-commerce marketplaces.

EDUCATION

Celal Bayar University

Associate Degree in Computer Programming

EDUCATION

English

- Turkish: Native
- B2 (Upper Intermediate / Professional Working Proficiency)

References are available on request.