

OKTAY FURKAN UYGUR

Full Stack Software Engineer | AI Systems Developer

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Location: Istanbul, Turkey

PROFESSIONAL SUMMARY

Full Stack Software Engineer with 4+ years developing scalable web applications and AI-integrated systems. Expert in JavaScript, TypeScript, Python, React, Node.js, and Model Context Protocol (MCP) implementation. Proven track record building high-performance B2B solutions processing 100,000+ daily transactions. Specialized in multi-agent AI systems. Strong foundation in SOLID principles, Clean Code practices, Test-Driven Development (TDD), and Agile methodologies.

CORE TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, C, SQL, HTML5, CSS3

Frontend Technologies: React.js, Angular, Redux, Next.js, Webpack, Babel, Sass, Tailwind CSS, Material-UI, Bootstrap

Backend Technologies: Node.js, Express.js, Django, Flask, FastAPI, REST API, WebSockets

AI & Machine Learning: Model Context Protocol (MCP), Multi-Agent Systems, Autonomous Agents, LangChain, OpenAI API, Claude API, Vector Databases

Database Systems: PostgreSQL, MongoDB, MySQL, Redis, Elasticsearch, DynamoDB, Database Design, Query Optimization, Data Modeling

Cloud & DevOps: AWS (EC2, S3, Lambda), Azure, Google Cloud Platform (GCP), Docker, Jenkins, GitHub Actions, CI/CD, Terraform

Security: AES-256, HMAC-SHA256, OAuth 2.0, JWT, SSL/TLS

PROFESSIONAL EXPERIENCE

Full Stack Developer

DIJI.TECH - Istanbul, Turkey

April 2025 - Present

- Architected and developed 5+ production-ready full-stack applications using React, Django, and PostgreSQL, serving 10,000+ daily active users with 99.9% uptime
- Implemented Model Context Protocol (MCP) architecture reducing system coupling by 45% and improving code reusability by 60% across microservices
- Designed multi-agent AI system handling 1,000+ concurrent tasks with autonomous decision-making, reducing manual intervention by 75%
- Integrated AI-driven development tools (Claude API) accelerating development cycles by 40% and reducing bug density by 30%
- Continuously monitored emerging technologies and integrated relevant advancements into live projects to enhance system capabilities and developer productivity
- Mentored 2 junior developers on Clean Code practices and SOLID principles, improving team code quality metrics by 25%

Software Developer

Trair Software Technology Investments - Istanbul, Turkey

June 2023 - September 2024

- Developed B2B e-commerce platform processing \$2M+ monthly transactions using React, Django, and PostgreSQL with 99.95% availability
- Optimized database queries reducing page load time from 3.2s to 0.8s, improving conversion rate by 18%
- Implemented comprehensive testing suite with 85% code coverage using Jest and Pytest, reducing production bugs by 40%
- Collaborated with 15+ cross-functional team members using Agile/Scrum methodology, delivering 20+ features on schedule
- Integrated payment gateways (Stripe) and third-party APIs handling 50,000+ daily transactions with zero security incidents

Junior Software Engineer

Masraff - Istanbul, Turkey

September 2021 - June 2023

- Participated in discussions on software functionality, consistency, and practicality to drive high-quality outcomes
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues in a timely manner
- Designed and maintained databases to optimize data storage and retrieval processes
- Engaged in user requirement meetings to accurately translate client needs into proposed application designs, enhancing customer satisfaction and project relevance

EDUCATION

Bachelor of Science in Electrical and Electronics Engineering

Balikesir University - Balikesir, Turkey

September 2020 - June 2024

Graduation Thesis:

- Developed secure real-time CAN Bus communication system between dual STM32 microcontrollers using AES-256 encryption and HMAC-SHA256 authentication for automotive safety applications

CERTIFICATIONS

- Claude Code in Action Certification - Anthropic (2025)
- AWS Certified AI Practitioner - Associate (Planned 2026)

LANGUAGES

- English - Professional Working Proficiency (B1)
- Turkish - Native Speaker
- German - Elementary Proficiency (A2)