

# 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

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### 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

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

## LANGUAGES

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