ÇAĞATAY TÜRKAN

COMPUTER ENGINEER / BACK END DEVELOPER

PROFILE

As a Computer Engineer with 5 years of professional experience, I specialize in designing and developing scalable RESTful APIs, implementing microservices architecture, managing complex databases, and optimizing CI/CD pipelines for seamless deployments. My expertise extends to leveraging advanced technologies, including OpenAI, to deliver innovative and user-friendly solutions. I have hands-on experience collaborating within agile teams, contributing to all stages of the software development lifecycle, and enhancing system performance through automation and optimization. Passionate about continuous learning, I strive to bring value to dynamic teams and impactful projects by combining technical proficiency with a commitment to innovation.

DETAILS

WEB SİTE:
https://github.com/cagatayturkann.com
https://cagatayturkan.com

EMAIL
cagatayturkann@gmail.com

MILITARY STATUS
Completed

LOCATION
Izmir, Turkey

LANGUAGES
Turkish: Native
English: Fluent (C1)

EDUCATION

Computer Engineering at Beykent University, Istanbul
October 2019 – January 2021
Master Degree

Computer Engineering at Beykent University, Istanbul
October 2012 – June 2017
Bachelor Degree

WORK EXPERIENCE

Software Engineer, Juphy, Oregon United States
September 2023 – January 2025
Key Achievements & Responsibilities
- Designed and developed backend processes for a Shopify-integrated application using Node.js, enabling seamless chatbot functionality with advanced vector database integration.
- Implemented a hybrid search mechanism for efficient query resolution by leveraging MongoDB and Weaviate vector databases, enhancing search accuracy and speed.
- Built and maintained Node.js-based RESTful API endpoints to support chatbot operations such as order management, sales processing, and user interaction, ensuring robust system performance.
- Developed custom classification algorithms and implemented them within the chatbot to enhance decision-making and user query handling.
- Created statistical and analytics-focused endpoints using Node.js, providing actionable insights through real-time and historical data analysis.
- Fine-tuned OpenAI's ChatGPT models using specific business data to create highly customized solutions aligned with organizational needs.
- Leveraged Retrieval-Augmented Generation (RAG) architecture to deliver accurate and context-aware responses, improving chatbot user satisfaction.
- Collaborated on the integration of advanced conversational AI features, extending the chatbot's capabilities for sales, order tracking, and problem-solving.

Software Engineer, Matriks Bilgi Dagitim Hizmetleri A.S, Istanbul
April 2022 – September 2023
Key Achievements & Responsibilities
- Developed high-performance RESTful APIs using Node.js and Fastify.js within a microservices architecture to handle and distribute real-time stock market data from Borsa İstanbul, Turkey's official stock exchange.
- Designed and maintained APIs capable of processing millions of requests daily, ensuring reliability and scalability for thousands of users.
- Implemented data retrieval and caching mechanisms using Cassandra, Redis, and Memcached, optimizing data access and response times.
- Worked with MQTT to listen to and process streaming data, enabling real-time data delivery for specific API endpoints.
- Automated deployment processes using GitLab CI/CD pipelines and Jenkins, ensuring seamless production updates.
- Monitored application health and performance through Kubernetes for logging, scaling, and container orchestration.
- Wrote comprehensive unit tests using Jest to ensure the accuracy and stability of all developed endpoints.
- Contributed to APIs handling CRUD operations, with a focus on high availability and low latency.
- Collaborated in an Agile/Scrum environment using tools like JIRA to track progress and ensure timely delivery of tasks.

Business Analyst, CBOT, Istanbul
January 2019 – April 2021
Key Achievements & Responsibilities

- Played a pivotal role in expanding the customer base over 20 clients, managing end-to-end processes for chatbot implementations and project deliveries.
- Contributed to the continuous development of CBOT's proprietary AI-powered chatbot platform by analyzing customer requirements and implementing new features aligned with business goals.
- Designed and maintained dynamic chatbot workflows for tasks such as order placement and payments using the CBOT Fusion platform, enabling seamless customer interactions without requiring code.
- Conducted comprehensive analysis, testing, and quality assurance for new features and updates, including developing reusable test cases and executing Postman and Selenium tests for APIs and interfaces.
- Authored user manuals and technical documentation to support both internal teams and clients in understanding and utilizing the platform effectively.
- Acted as the primary point of contact for clients, managing communication, gathering requirements, and providing updates throughout the project lifecycle.
- Led client-specific project management efforts, including defining project timelines, tracking milestones, and ensuring timely delivery of chatbot solutions.
- Gained holistic experience in the software development lifecycle, excluding coding, by managing analysis, testing, client communication, and project coordination.

COURSES

Full Stack Bootcamp, Logo Cyber Security and Network Technologies / Patika.dev, Istanbul [Certificate](#)
January 2022 – March 2022
Learned advanced JavaScript, Vue.js, React Native, and Express.js.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (Node.js), TypeScript
- **Web Frameworks:** Fastify.js, Koa.js, Express.js, Vue.js, GraphQL
- **Database Technologies:** CassandraDB, MongoDB, PostgreSQL, Redis, Elasticsearch, Weaviate VectorDB, MySQL
- **Test Frameworks:** Selenium, Jest
- **Message Brokers:** Apache Kafka, MQTT
- **DevOps & CI/CD Tools:** Docker, Kubernetes, Jenkins, GitLab CI/CD, AWS, MS Lens
- **Version Control:** Git
- **Development Tools:** Postman, JIRA, Trello

CORE SKILLS

- **Technical Expertise:** RESTful API design, Microservices Architecture, CI/CD Pipelines, Database Management, Hybrid Search Systems
- **Soft Skills:** Leadership, Teamwork, Critical Thinking, Problem Solving, Communication
- **Work Ethic:** Highly Motivated, Fast Learner, Effective Time Management, Multitasking

CERTIFICATES

03 2022 Full Stack Bootcamp Logo Cyber Security and Network Technologies, Verified Certificate