

UMUT SARPER UZUN

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PERSONAL STATEMENT

Backend Developer with an MSc in Computer Science (Distinction) and hands-on experience in building secure, scalable backend systems. Specialized in RESTful API development, database optimization, and cloud-based solutions. Developed AI-powered chatbots and POS systems, integrating OAuth2, JWT authentication, and real-time data processing. Proficient in Python, Flask, and DevOps practices, with a strong focus on writing clean, maintainable code and optimizing system performance. Currently seeking an entry-level Backend Developer role in a UK-based company to build robust and high-performance backend solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL
- **Frameworks & Libraries:** Flask, Django, Node.js, Express.js.
- **Database Management:** MySQL, PostgreSQL, MongoDB, SQLite, SQLAlchemy
- **AI & Machine Learning:** Sentiment Analysis, LSTM, Gradient Boosting, AI-driven chatbots
- **API Development & Integration:** RESTful APIs, FastAPI, JWT, OAuth2, Swagger, Postman
- **Cloud Platforms & DevOps:** Azure, Docker, Kubernetes (Basic), CI/CD Pipelines, Linux
- **Security & Authentication:** OAuth2, JWT, Role-Based Access Control (RBAC)
- **Testing & Debugging:** Unit Testing (PyTest Basic), Postman, Debugging (VS Code, PyCharm)
- **Version Control & Collaboration Tools:** Git, GitHub, GitLab (Basic), Agile Methodologies (Scrum)
- **Soft Skills:** Problem-Solving, Analytical Thinking, Attention to Detail, Effective Communication, Team Collaboration

WORK EXPERIENCE

Software Developer (Project-based) | AFJ Limited, Birmingham, UK

September 2024 – January 2025

- Developed a Flask-based backend, integrating OneDrive API for OAuth2 authentication, JWT security, and real-time document processing.
- Automated fleet inspection report retrieval via CheckedSafe API, enabling real-time compliance monitoring and proactive issue detection.
- Designed and optimized PostgreSQL & MySQL databases with SQLAlchemy ORM, ensuring efficient data storage, API logging, and token management.
- Built and optimized RESTful APIs, reducing response time by 30%, enhancing chatbot automation, and improving fleet data transactions.

Design Engineer | AHR Automotive, Adana , Turkey

March 2022 – June 2023

- Managed product design processes, utilizing automation tools and data analysis techniques.
- Conducted engineering simulations and data analysis using Python and MATLAB.
- Optimized design workflows through API integrations with CAD software.
- Implemented scripting and automation solutions to enhance production efficiency.

TECHNICAL PROJECTS

AI-Powered Chatbot for Fleet Management

- Developed a Flask-based backend, integrating OneDrive API for OAuth2 authentication, JWT security, and real-time document processing.
- Automated fleet inspection report retrieval via CheckedSafe API, enabling real-time compliance monitoring and proactive issue detection.
- Designed and optimized PostgreSQL & MySQL databases with SQLAlchemy ORM, ensuring efficient data storage, API logging, and token management.
- Built RESTful APIs for secure fleet data transactions, document retrieval, chatbot processing, and NLP-based sentiment analysis to enhance automation and user engagement.

Point of Sale (POS) System

- Developed a secure and scalable backend for real-time sales transactions, inventory tracking, and order management.
- Designed and optimized PostgreSQL & MySQL databases for fast transaction logging, secure payments, and efficient data retrieval.
- Implemented RESTful APIs with JWT & OAuth2 authentication, enabling secure frontend-backend communication and multi-user role management.

Bank Management System (Python-Based Backend System)

- Designed and implemented a banking backend system, handling customer accounts, transactions, and authentication mechanisms.
- Developed secure authentication with role-based access control (RBAC) for admins and customers.
- Built transaction processing logic, including deposits, withdrawals, and inter-account transfers with real-time validation.

EDUCATION

MSc Computer Science (Distinction) | Birmingham City University, UK

2023 – 2024

- **Degree Classification:** Distinction
- **Dissertation:** : Development of an AI-Driven Chatbot for Fleet Management & Document Handling
- **Relevant Modules:** Software Development, Database Design & Optimization, Web Application Development, System Analysis & Design, AI & Machine Learning

BSc Mechanical Engineering | University of Gaziantep, Turkey

2017 – 2022

- **Degree Classification:** 2:1 equivalent
- **Medium of Instruction:** 100% English

CERTIFICATIONS & TRAININGS

- The Complete Python Pro Bootcamp – Udemy (2022)
- The Ultimate MySQL Bootcamp – Udemy (2024)
- The Modern JavaScript Bootcamp Course – Udemy (2022)
- Production Management Education – IINSTITU (2023)

ADDITIONAL INFORMATION

- **Languages:** Turkish (Native), English (Advanced), German (A1)
- **Interests:** Scalable Architecture, Web Development, AI, Basketball, Chess, Galatasaray