

MEHMET S. UZGOREN

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WORK EXPERIENCE

Shell PLC – Software Engineer II, Machine Learning; Houston, TX Aug 2025 – Current

- Scraped 14k+ repositories, cleaning data & converting to MCP format to train LLM on internal code base.
- Designed and deployed a full-lifecycle web crawler, managing architecture, stakeholder feedback, and production alerting.
- Engineered Azure Container App Jobs infrastructure to streamline and automate continuous crawler deployments.
- Revamped crawler monitoring systems, reducing resource consumption by 80% while maintaining 99%+ availability SLAs.
- Created a PostgreSQL migration repository to enforce version control and enhance database disaster recovery.

Shell PLC – Cloud Engineer; Houston, TX Feb 2024 – Aug 2025

- Engineered a backend pipeline that automated the deletion of inactive third-party Azure accounts, leading to \$2M in savings
- Leveraged ADX, Graph API, KQL, OAuth 2.0, and Azure sign-in/activity logs to bridge gaps in on-prem AD monitoring
- Led development of MFA reset self-service portal, slashing support hours by ~50%, saving \$300,000+ annually in payroll costs
- Standardized Azure resource provisioning with Bicep IaC templates, eliminating configuration drift across environments.

John Deere – Software Engineer Intern; East Moline, IL May 2023 – Jul 2023

- Developed a Full-Stack Plugin using Spotify's Backstage.io to expose AWS OpenSearch Logs, increasing new user traffic by 100%
- Streamlined log access by consolidating data into one portal, enhancing user experience, reducing log retrieval time by 36%
- Exposed a Grafana Metrics Page, showcasing latency, traffic, errors, and saturation for 50,000+ GitHub repositories and 200 teams

Kane Robotics – Robotics Intern; Austin, TX Feb 2023 – May 2023

- Demonstrated image classification and object detection models for MRO 2023, a top 100 trade show with over 850+ exhibitors
- Engineered machine learning models automating sanding process, reducing manual labor by 50%, increasing performance by 27%
- Used TensorFlow and NumPy along with an Intel RealSense camera to detect and re-sand missed spots

Raindrop Austin – Software Engineer Intern; Austin, TX Dec 2021 – May 2022

- Identified challenges in securing user authentication and managing scalability of user information storage for 100+ users
- Developed Flutter-based login UI integrated with Google Firebase, streamlining authentication and database management

NASA – Aerospace Scholar Extern; Houston, TX Nov 2019 – Jul 2020

- Led a multidisciplinary team of 10+ engineers to design a prototype for a sustainable six-month living environment on Mars
- Engineered a specialized climate monitoring satellite with NASA's scientific instruments, power, and communication systems

PERSONAL PROJECTS

PoliticianViews.com (Typescript, PostgreSQL, Python) Jan 2026 – Current

- Architected and deployed a full-stack website centralizing voting records and public statements for 500+ 2026 political candidates.
- Developed an LLM-driven stance-detection layer cross-referencing social media statements against historical voting data.
- Engineered a recursive LLM pipeline with "summarize-and-nest" logic to analyze large bills, preserving context past token limits.
- Built a distributed crawler with rate limiting and deduplication to scrape candidate socials and prune losing primary candidates.

Parca (Typescript, Python, AsyncIO, WebSockets) Nov 2025 – Current

- Architected a real-time event streaming pipeline for fractional property trading with partitioned logs and consumer groups.
- Built a windowed aggregation layer with WebSocket fan-out delivering updates to 100+ concurrent clients in <50ms.
- Implemented an async order matching engine sustaining ~1K orders/sec with per-partition parallelism and backpressure handling.

TECHNICAL SKILLS

Languages – Python, TypeScript, JavaScript, Go, Java, C/C++, SQL, HTML, Dart

Frameworks – React, Node.js, Django, Spring, PyTorch, TensorFlow, AsyncIO, WebSockets

Platforms & Tools – Azure, AWS, Docker, PostgreSQL, MongoDB, Git, Grafana, OAuth 2.0, KQL

EDUCATION

The University of Texas at Austin B.S. in Electrical Computer Engineering with Honors Dec 2023

Deans List: Every Semester Technical Track: Software Engineering and Design **GPA: 3.92**

Relevant Coursework: Data Structures & Algorithms, Embedded Systems, Concurrent and Distributed Systems, Software Design Lab

LEADERSHIP EXPERIENCE AND ACTIVITIES

TSL SERPENT Nanosatellites – Deputy Chief Engineer, Command & Data Handling Team Lead Dec 2022 – Dec 2023

- Rebuilt the flight software team consisting of 10+ embedded/flight software engineers, achieving 50% faster development time