

# AHMET CELIK

[LinkedIn](#) | (845) 907 4678 | [ahmetcelix.com](mailto:ahmetcelix.com) | [ahmetcelik.tech@gmail.com](mailto:ahmetcelik.tech@gmail.com) | [GitHub](#)

## SKILLS

- **Languages & Frameworks:** Python, Java (Spring Boot, JUnit), C#, C/C++, JavaScript, Flask, FastAPI, HTML/CSS
- **Backend & DevOps:** REST APIs, Microservices, System Design, CI/CD, Docker, AWS, Linux, Bash, Git, Agile
- **Databases & Tools:** PostgreSQL, MySQL, SQL, Redis, RabbitMQ, Pandas, NumPy, Data Pipelines, JSON, Jira

## WORK EXPERIENCE

### Software Engineer — Turas Group

09/2022 - Present

- Architected and deployed **5 new backend microservices** using Python (Flask) and C# (.NET) on AWS with Docker, a system adopted by **70+ engineers** that handles **2,500 TPM** and **boosted platform efficiency by 25%**.
- Engineered a data automation pipeline with Python (Pandas) and cron jobs that generated **\$65K+ in annual savings by eliminating 6-8 hours of manual data entry per week** and **increasing process accuracy by 30%**.
- Refactored a monolithic legacy C# service into a **more scalable** distributed system, resolving a critical database connection-pooling issue to reduce **API latency by 100ms** and **decrease overall downtime by 15%**.

### Graduate Assistant — State University of New York

08/2024 – Present

- Engineered automation pipelines and data-analysis systems using Python and SQL, eliminating **10–12 hours per week** of manual processing and **accelerating research timelines by 30%** across multiple faculty teams.
- Led applied research with faculty by designing experiments, processing **5K+ dataset entries** using Python and SQL, and generating insights that directly influenced the direction and outcomes of multiple active research studies.
- Delivered technical instruction to **30+ students** in Python, Java, and Data Structures, increasing project completion and **pass rates by ~25%** while significantly reducing debugging interventions and support overhead.

### Software Engineer — Turmach Machinery

07/2019 - 09/2022

- Developed backend automation software and control systems using Python, C/C++, and SQL, boosting system performance by **20%+**, and supporting the operation and uptime for mission-critical internal platforms.
- Built and deployed diagnostic and monitoring tools that **reduced recurring software defects by ~25%**, saved engineers **3+ hours per week in troubleshooting cycles**, and improved long-term system reliability.
- Authored comprehensive technical documentation and standardized SOPs that cut onboarding and knowledge-transfer time **by 20+ hours per quarter**, accelerating ramp-up across multiple engineering teams.

### Software Engineer, Intern — Turas Group

07/2018 - 09/2018

- Engineered automation scripts and diagnostic tools using Python and C# to streamline troubleshooting, **successfully cutting system errors by 15%** and **saving over \$5K in estimated quarterly maintenance losses**.

## EDUCATION

### State University of New York at New Paltz

2024 - 2025

- Master of Science in Computer Science

### State University of New York at New Paltz

2023 - 2024

- Bachelor of Science in Business Analytics and General Business

### Istanbul Technical University

2019 - 2022

- Bachelor of Science in Business Administration

## PROJECTS

- **PQC Drone C2 Simulator:** Designed and implemented a quantum-resistant drone Command & Control (C2) simulator to **protect against future cryptographic threats** using the CRYSTALS-Kyber algorithm.
- **AI Search Engine:** Built a semantic search engine over a corpus of **100k documents** using sentence-transformer models. Deployed Python/FastAPI backend in a Docker container, achieving a search latency of under 50ms.
- **Real-Time Messaging Platform:** Engineered a messaging application using React and Node.js with WebSockets. Leveraged Redis for session caching to support over **1,000 concurrent connections with minimal latency**.
- **Gesture Detection AI:** Built a real-time computer vision application using TensorFlow and OpenCV to interpret hand gestures from a live WebRTC stream, achieving over **95%** recognition accuracy for hands-free navigation.