Micah Bozkurtian

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EDUCATION

Wake Forest University Winston-Salem, NC
Bachelor of Science in Computer Science *May 2025*
Minor in Philosophy
Cumulative GPA: 3.513; Dean's List: Fall 2021, Fall 2022, Spring 2023
Relevant Coursework: Computer Systems I & II, Data Structures and Algorithms, Linear Algebra 1, Algorithm Design & Analysis, Elementary Probability & Statistics, Introduction to Regression and Data Science, Programming Languages, Software Engineering, Cloud Computing, Pervasive Computing, Udemy: Python Bootcamp

COMPUTER SKILLS/PLATFORMS

Programming Languages: Python, Java, JavaScript/TypeScript, C#, Kotlin, C, R, SQL, HTML
Tools & Platforms: Git/GitHub, Docker, Node.js, AWS, PostgreSQL, MongoDB, RabbitMQ, Excel/CSV
Concepts: Object-Oriented Programming (OOP), RESTful APIs, Microservices Architecture, ETL/Data Pipelines, Cloud Architecture, Data Extraction, Image Processing, Automated Reporting, Debugging & Optimization, Deployment in Dockerized environments

PROFESSIONAL EXPERIENCE

Trox Tech Fort Mill, SC
Backend Development Intern *Summer 2024*
- Designed and maintained backend services using Java and Python, contributing to the scalability and efficiency of a microservices-based architecture
- Automated backend workflows by building data-driven scripts and services, reducing manual processing time and improving operational efficiency across client systems
- Conducted thorough code reviews and enforced best practices, driving improvements in code quality, performance, and long-term maintainability

PROJECTS

OrderHub Invoice System – Personal Project
- Built a microservices invoice system with separate Orders and Billing services, communicating asynchronously via RabbitMQ
- Validated and persisted invoices in PostgreSQL; tracked payment state/history in MongoDB for durable status across sessions
- Exposed RESTful endpoints consumed by a React UI to create orders and mark invoices as paid with immediate feedback
- Containerized infrastructure (Postgres, RabbitMQ, MongoDB) with Docker; ran services locally for reproducible development

PDF Graph Data Extractor – Personal Project
- Built a full-stack application to extract structured chart data from PDFs and return results as JSON for live analysis
- Integrated Upstage Document Parser and OpenAI/Qwen models for high-accuracy chart and table extraction across multi-page PDFs
- Engineered graph-specific cropping and scaling algorithms using PyMuPDF/pdf2image to isolate chart regions with precision
- Developed a React frontend with dynamic tables and Recharts visualizations, enabling instant inspection of extracted data
- Re-architected backend workflow to replace static Excel exports with Dockerized, API-driven JSON responses, improving portability and maintainability

Dining Ratings Platform – Academic Project
- Engineered a backend data pipeline to automate web scraping and ensure real-time updates of dining menu data, maintaining accuracy and consistency
- Designed and deployed a scalable data management system to handle user-submitted reviews, enabling dynamic synchronization and efficient retrieval for front-end integration
- Developed a responsive web interface with seamless data flow, enhancing user experience by providing real-time access to aggregated dining feedback and menu information

LEADERSHIP EXPERIENCE

Student Budget Advisory Committee, Wake Forest University Winston-Salem, NC
Voting Member *Fall 2022–Spring 2025*
- Provide expertise regarding administrative and fiscal issues for seven assigned student organizations to guarantee adherence to university budget guidelines
- Manage $600,000 budget in collaboration with 40 representatives to allocate funding to 157 school clubs and organizations
- Conduct bi-weekly visits with student organization leadership teams to ensure efficient fund utilization and resolve club-related issues