Michael Mironidis

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🎓 Education

New York University   New York, NY
BA Computer Science and Mathematics (cum laude)   *2018 – 2022*
- ❯ Notable coursework: Applied Internet Technology, Artificial Intelligence, Numerical Analysis, Mathematics of Finance
- ❯ President, VP, Treasurer of NYU's Hellenic Heritage Association

🏢 Experience

AT&T   Middletown, NJ
Software Engineer III   *April 2023 – Present*
- ❯ As part of the Innovation team, developed new features into IVR (Interactive Voice Response) framework (Java, Spring, Groovy, bpmn), such as thread-safe Kafka consumer hot-swapping, scheduling customer callback with agent availability, and integrating a LLM (Large Language Model) to handle customer intents that could not be identified with Google DialogFlow
- ❯ Continued development of below ML application, leading team of four juniors in implementing long-term system design microservices and developing new model use cases
- ❯ Led proof-of-concept Rust backend microservice development (Axum) and cloud deployment

Software Engineer I-II (Technology Development Program)   *July 2022 – April 2023*
- ❯ Led development of the data engineering, semi-supervised learning, and backend API of an ML application (Python, Pandas, Kafka, FastAPI, Cassandra, Azure) for identifying invalid call failures and their cause, allowing calls to be classified near-instantly with 99% accuracy.
- ❯ Led the system design of the long-term solution implementing the ML call classifier application into the call logging pipeline for real-time call analysis
- ❯ Implemented Kafka Consumer into IVR framework for customer authentication through mobile app while on call with customer support
- ❯ Developed CI/CD pipelines using Azure DevOps and Terraform for secure deployment of applications and their supporting cloud infrastructure within the organization
- ❯ Served as a lead SE technical interviewer for the '22-'23 hiring season

Columbia University's Center for Precision Medicine and Genomics   New York, NY
Software Development / Bioinformatics Intern   *Summer 2021*
- ❯ Independently developed ArisLIMS for the Gharavi lab, a fully-featured Laboratory Information and Management System, saving 5+ days of time per month versus the legacy system as estimated by the project coordinator. Worked closely with lab staff to translate their needs into code, ultimately saving the lab $50,000 versus yearly subscription-based platform in consideration.
- ❯ Stack: Python, Flask, MySQL

💻 Projects

Wave-function Collapse Terrain Generator App for drawing realistic 2D terrains on a grid using wfc, and then navigating that grid using A* (Python, PyGame)
iOS app Novelty iOS app involving timer and leaderboards. Uses SwiftUI frontend, Swift backend, and Mongodb Atlas for database
AIT Final Project Node.js Social media app for organizing meetups with friends, complete with Azure Active Directory authentication, friend search/add, and Outlook calendar sharing
Quant Strats Finance app for calculating common quantitative investment strategies on custom portfolios. Flask + SQL

</> Skills

Languages Python, Java, Rust, Groovy, Javascript, HTML+CSS, Swift, C, SQL
Libraries/Tools FastAPI, Flask, Spring, Pandas, Scikit, Kafka, Cassandra, maven, git, Axum, terraform, bpmn, SQL and NoSQL databases, Node.js, React, DialogFlow
Concepts RESTful APIs, Backend, asynchronous design, OOP, functional programming, data engineering, debugging, DRY, AI/ML (Theory + Ops), unit testing (JUnit, unittest), Multithreading/multiprocessing, system design, Agile (scrum)
Fun Fact Won the John Lennon Songwriting Contest in the genre of Country in 2021 🤠