Boaz Kaufman

bk1nyc@gmail.com   Cell: 917-868-3732

New York, NY and Queens, NY   ernulphus.github.io/website/   linkedin.com/in/boaz-kaufman

Full-Stack Software Engineer

Software engineer focused on high throughput, stability, and security. Analytical and dedicated to productive client relationships. Favors test-driven Agile development with readable and reusable code. Currently enrolled part-time in UC Berkeley's Master of Information and Cybersecurity program.

Education

UC Berkeley School of Information, Remote   05/2024 - 04/2026

Master of Information and Cybersecurity (MICS)

Member of the Leadership Development Program for Gender Equity and the Berkeley Hacking Club GPA: 4.0

CUNY Hunter College, New York, NY   08/2018 - 06/2022

Bachelor of Arts in Computer Science and Classical Studies, Magna Cum Laude

Minors in Mathematics and Music.

Member of Phi Beta Kappa and Eta Sigma Phi honor societies, and recipient of the Macaulay Honors scholarship.

GPA: 3.885

Experience

Full Stack Web Developer, Remote   08/2023 - Present

DataMixMaster, LLC

- Joined as employee #3 in a data science startup founded by an NYU professor of Computer Science. Within a two-week sprint, committed code on both the front end and back end that went into production, leading to an immediate increase in efficiency.
- Updated existing pages in a React frontend including the product's Homepage, About page, and a data table view to match designs by our UI consultant; ensured pages were responsive and accessible.
- Took an almost entirely untested frontend and wrote tests for dozens of components in Jest, working towards total coverage and improving production uptime to over 99%.
- Set up and fine-tuned app status monitoring using StatusCake for instant downtime notifications, lowering response time when something breaks and increasing overall team stability.
- When contracted by the Structured Finance Association to build a knowledge hub, wrote both frontend designs to their specifications and over a dozen API endpoints to serve it.
- Wrote a CRUD interface translating existing database calls from MongoDB to SQLAlchemy, allowing the company to work with clients preferring a variety of databases.
- Wrote scripts to vectorize a database table of 10,000+ records using a HuggingFace LLM to leverage MongoDB's semantic Vector Search ML tool.
- Ran production builds on PythonAnywhere's cloud environment and Heroku, ensuring consistent product availability.
- Client management - when creating products for clients, ensured a minimum weekly communication to inform design decisions and goal orientation.

Computer Science Instructor, New York, NY   08/2022 - 10/2023

East Harlem Scholars High School

- Without substantial prior experience leading full classes, instructed five sections of 17-26 students each. Designed and taught a flexible class in a Harlem high school using online teaching materials adapted and personalized to a diverse student body.

- Taught Python to 100+ historically disadvantaged students across five sections for three semesters. Conveyed data structures, input/output, image manipulation, and some basic cryptography to students with a range of previous exposures; over 90% pass rate and several students continuing to college-level computer science after graduation.

Incident Response Intern, New York, NY   06/2022 - 08/2022
DOE, Security Incident Response Team
- Researched and responded to cybersecurity incidents on the Department of Education's citywide network of over 8 million hosts, including computer labs and personal machines assigned to students and teachers.
- Identified suspicious traffic using Devo SIEM, Microsoft Cloud App Security, and reverse IP lookup to flag accounts in need of remediation – typically up to 10 events daily – then remediated them by resetting credentials.
- Wrote scripts to automate filtering suspicious traffic using XSOAR, improving the throughput of the relatively small six-person incident response team.

Core Skills
FRONTEND: JavaScript, HTML, CSS, React.js, React Native, Docker, Heroku
BACKEND: Python, Flask, MongoDB, SQL, SQLAlchemy, UNIX, Git, GitHub, C++, pytest, Jest
MACHINE LEARNING: TensorFlow, scikit-learn, numpy, HuggingFace