Alex Li

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EDUCATION

Temple University — Philadelphia, PA

BS Computer Science, Mathematics and Data Science Minor | GPA: 3.59 — *Aug. 2021 – May 2025*

- **Relevant Coursework:** Discrete I & II, Calculus I, II & III, Linear Algebra, Data Structures & Algorithms, Web App Programming, Operating Systems & Systems Programming, Computational Methods in Finance, User Experience Design, Principles of Data Science, Foundations of Machine Learning

EXPERIENCE

Onvector — February 2024 – Present

IT Administrator — On-site | *King of Prussia, PA*

- Provided technical support and troubleshooting for software, hardware, and network issues
- Assisted in the installation, configuration, and maintenance of IT Systems
- Monitored network performance and ensured optimal up-time for systems
- Documented IT procedures and created user guides for software and systems

Temple University — August 2022 – Present

Teaching Assistant for CIS 1166, 2033, 3223 — *Philadelphia, PA*

- TA of Discrete Mathematics for Professor Beigel (2022)
- TA of Data Structures & Algorithms for Professor Hughes, Computational Probability & Statistics for Professor Belokar (2024)
- In charge of overlooking the recitations and holding personal office hours for **90+** students, working on numerous concepts regarding theory, and grading their assignments
- Assisted lead professor in planning and implementing engaging lessons for students
- Assisted with administrative tasks such as record-keeping and communication with students

PROJECTS

X-Fire | React Native (Expo), JavaScript, AWS Lambda, Twilio API, YoloV9, PyTorch — April 2024 – April 2024

- Led a team of four and pitched to multiple judges to secure 3rd place in the beginner category and secure victory in the Comcast sponsored track, triumphing over **63** teams and **450+** competitors, earning a prize of $1500.
- Implemented a **React Native** application using **AWS** serverless architecture and **Twilio** integration, featuring live fire detection and push notification alerts for users, with seamless communication to authorities through the app.
- Utilized **YOLOv9** and **PyTorch** for fire detection, enhancing functionality with live data processing and seamless user experience.

Computational Methods in Finance | CIS 4360 — August 2023 – December 2023

- Set up SQL database and develop a process to download historical stock prices from Yahoo API and import them into the database
- Implement various technical indicators using Python Pandas library; Use the engine to identify under and overvalued stocks according to technical analysis
- Implement a discounted cash flow model; Run it through the S&P 500 universe to identify undervalued stocks from a fundamental perspective
- Implement a mortgage calculator in Python
- Develop and implement an options calculator based on the Black-Scholes model; have implemented code to calculate the various risk factors

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Oracle, MySQL), JavaScript, HTML/CSS
Frameworks/Libraries: React, Node.js, TailwindCSS, Spring, JUnit, NumPy, Pandas, PyTorch
Technologies/Tools: Git, VS Code, IDEA, Figma, npm, Maven, Jupyter Notebook

ACTIVITIES

Secretary, Temple Trading Club (TTC) — Jan. 2024 – Present
Member, Association for Computing Machinery (ACM) — Sep. 2021 – Present