

Adrian Michael Ross

• github.com/adrianmross • adrianmross.github.io • linkedin.com/in/adrianmross •

EDUCATION

Lehigh University – B.S. Honors, Computer Science & Business

Aug 2020 – May 2024

Minors: Data Science, FinTech; (AACSB & ABET-accredited); GPA: 3.52

Bethlehem, PA, USA

Coursework: Data Structures & Algorithms, Discrete Algorithms, Databases, Software Engineering, Data Science, Systems Software, Operating System Design, Computer Architecture, Blockchain Systems, Statistical Computing

SKILLS

Prog. Lang.'s: *Python, C/C++, JavaScript, R, HTML/CSS, Java, C#, TypeScript, Go, Dart, Swift*

SWE Tools: *SQL, MongoDB, React, JDBC, NodeJS, Docker, Kubernetes, Bash, AWS, jQuery, Flutter, Spark, Heroku*

PROFESSIONAL EXPERIENCE

Cyberinfrastructure Engr. Intern - The Federal Reserve Bank of Kansas City; *KC, MO* *Jun. 2023 – Aug. 2023*

- Formed architecture for the next generation of the Bank's High-Performance Computing (HPC) environment
- Implemented custom container orchestration, security, and portability solutions for economic research

Global Analytics Intern - Lockton Co.; *Kansas City, MO*

Jun. 2022 – Aug. 2022

- Built a prototype time-series revenue forecasting model pipeline in AzureML for PowerBI, achieving above 95% accuracy in end-of-day revenue predictions & handling nearly 3000 multi-sourced transactions daily
- Optimized market data sourcing & scrubbing processes for higher QA with Azure Synapse and Python scripting

Teaching Assistant - Lehigh University, Computer Science & Engineering; *Bethlehem, PA*

Aug. 2022 – Present

- Host office hours, provide feedback, & grade for courses: Discrete Algorithms, Databases, Blockchain Systems
- Lead review sessions, liaison between graders & professors, coordinate grading workload, and run grade reports

TECHNICAL PROJECTS

Oracle DIDs Capstone Project - PM & Fullstack Developer

Jan 2023 – Present

- Implemented a decentralized identity solution on the Oracle Blockchain Platform with Hyperledger Aries
- Developed agent software with secure storage (wallets) in TypeScript & smart contracts in Golang
- Presented a report showcasing the DIDs & VCs lifecycle for healthcare use cases with an accompanying demo

Research Fellow Project - Scalable Systems & Software Research Group

Jan. 2023 – Present

- Developed a Unity demo in C# on the Algorand chain to demonstrate unseen NFT utilization in gaming
- Wrote light wallet client & smart contracts for a .NET MAUI dApp for atomic transactions, freezing, & indexing

Purplex: A Professional Social Platform - PM & Fullstack Developer

Aug 2022 – Dec 2022

- Designed in a team of 5, a web & mobile social app with ReactJS & Flutter deployed on Heroku with unit tests
- Improved performance with encoded calls & cached Google OAuth sessions and recent files from Google Cloud

LEADERSHIP EXPERIENCE

Computer Science & Business Association (CSBA)

Sep 2020 – Present

Executive Board: Senior Advisor, Fmr. President, Secretary & First-Year Representative

Bethlehem, PA, USA

- Oversaw program-related affairs & development of 280+ students, e.g., getting honors major accreditation
- Directed work of 9 board members & committees leading campus-wide initiatives, e.g., hackathons & conferences

Awards: Dean's List, Eagle Scout, President's Volunteer Service Award, Duke of Edinburgh, Brogden Debate Sch.

Volunteer: Boy Scouts of America, Harvesters KC, NHS, NSSHS, Lehigh Disability Support Services note-taker

Activities & Societies: ACM Lehigh Coders Community, Brown & White Newspaper, CBE Club Council