Julian Elmasry

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Education

University At Buffalo (GPA 3.9) — Buffalo, NY
Bachelor of Science in Computer Science — *August 2022 - December 2024*

Stony Brook University (GPA 3.6) — Stony Brook, NY
Bachelor of Science in Information Systems — *August 2020 - May 2022*

Experience

Data Engineering Intern — June 2023 - January 2024
Zelle - Early Warning Services — *Scottsdale, AZ*

- Tested ETL pipelines using the SpockIT framework, while also leveraging tools such as Kafka and JMeter to ensure operational functionality and efficiency when loading large volumes of data
- Developed a collection python scripts that spearheaded the database migration efforts
- Collaborated with a team of software developers and data engineers to design, implement, and optimize data integration workflows
- Documented ETL pipeline architectures, data mappings, and integration workflows using Confluence, and Java classes to represent file types
- Worked in an Agile environment, contributing to daily standups and weekly team meetings to drive product development and progress

Software Engineering Fellow — June 2022 - August 2022
Major League Hacking — *Remote*

- Learned how to build and deploy smart contracts on the Solana blockchain leveraging the Anchor framework using the Rust programming lanugage
- Participated in daily stand up meetings to ensure progress on the project, as well as weekly one on ones with team mentor

Information Technology Support Specialist — June 2022 - July 2022
JAMF — *Minneapolis, MN*

- Created different software configuration infrastructure environments in a development lab to troubleshoot client issues
- Supported and troubleshooted issues relating to system configuration, application usage, and software implementation
- Assisted in managing the help desk ticket system

Projects

Bytecode Language Interpreter | *OCaml*

- Leveraged the functional programming paradigm to design an interpreter for a JVM bytecode style language
- Developed custom parsing and evaluation mechanicsms to handle byte code instructions
- Conducted rigorous testing using a comprehensive suite of unit tests with an automated bash script pipeline to ensure reliability and correctness

Discord Paper Trader | *Typescript, MongoDB, DiscordJS, Docker*

- Developed a containerized discord bot using DiscordJS allowing users to buy/sell stocks with real time prices using paper money
- Leveraged Yahoo Finance API to fetch real time prices to update user models in MongoDB
- Hosted on Railway through a Docker container allowing for seamless scalability and load balancing

Technical Skills

Languages: Python, Java, Go, C, Node.js, Javascript, Typescript, OCaml, SQL
Frameworks: React, NextJS, Flask, Gin, Express
Developer Tools: Git, Docker, Linux, Firebase, AWS, MongoDB, SQL, GitHub Actions