Jawad Arshad

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EDUCATION

University of Toronto (GPA: 3.7) — Toronto, ON
Bachelor of Science in Computer Science, Specialist Program Comprehensive Stream — *Sept. 2019 – May 2024*

EXPERIENCE

Full Stack / Blockchain Developer — May 2022 – Present
Dapp Technology Inc — *Toronto, ON*
- Built a full-stack web application using **NextJS with Typescript**, **NestJS** and **Firebase** to allow users to bridge tokens on multiple chains, had over **30+ chains with 4000+ tokens on 15+ bridges.**
- Developed a DeFi Hub application that allowed users to trade, earn and explore in DeFi, with **real time price data shown on a Tradingview lightweight charts.**
- Implemented functions to **firebase function** that completed various tasks, like updating a price document on **firebase store** on a scheduled basis.
- **Deployed** many Smart Contracts to the **blockchain**, like a presale contract, and a lottery contract.

Quality Assurance Co-op — May 2021 – Jan 2022
Clearbridge Mobile — *Toronto, ON*
- Developed scripts in **java** with **selenium** to automate web test flows to significantly reduce the time it takes to start testing.
- Worked in teams of 6 – 15 member teams in an **agile** work environment to **develop, test, and release new features every couple of weeks.**
- **Tested** applications using a variety of test methods like, **regression, smoke, sanity and more**.
- Ensured that developed applications were working as expected for a large **enterprise company** client.

PROJECTS

Langchain | *Python, Git*
- **Contributed** to an **open-source python** repository called Langchain.
- Developed new tools that allowed **AI agents** to access information on the **google such as google jobs, google finance, google trends, and google lens** by calling a **external API** and parsing the data for the AI agent.
- **Wrote test cases and example docs** for the new tools.

Mock AirBnb Database and Backend | *Java, MySql*
- Developed a replica database of Airbnb in **MySQL**.
- Allowed users to add listings with multiple amenities for any dates and allowing other users to rent out the listings
- **Normalized** the relation into **3NF**
- Built a **back-end Java application** that allowed users to **CRUD** items into the database.

Mock Linux Shell | *Java, SVN*
- Developed a mock **(Linux) Shell** in **Java**, employing various features of **object-oriented programming**.
- Created an **abstract command class** to facilitate **easy development and extension** of new commands (mkdir, ls, cat, redirection, and more).
- Engineered a **virtual file system** using a **tree structure**.
- Implemented a text-based save file format to preserve the current state of the shell for future loading.
- Engaged in a 2-week **agile development** cycle for rapid development and testing using SVN to **version control**.
- Conducted testing of classes using **JUnit test suites** and mock classes.
- Utilized **CRC cards** for brainstorming the design of object-oriented software.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, Typescript, HTML/CSS
Storage: MySQL, SQLite, MongoDB, Firebase Store, Supabase
Frameworks: React, NodeJS, ExpressJS, NestJS, NextJS, Flask, JUnit, Jest
Developer Tools: Git, GitHub Actions, Docker, Google Cloud Platform, VS Code, Visual Studio, Jupiter Notebook, Eclipse
Libraries: Axios, Styled-Components, Ethers, Redux, Recharts, Socketio, Pandas, NumPy, Matplotlib, Chai, Mocha, Hardhat