Joss Duff

jod323@lehigh.edu | 401-426-1932 | Rumford R.I. | jossduff.com

Education

Lehigh University – B.S. in Computer Science and Business Bethlehem, PA   May 2023

Courses: Blockchain in Algorithms and Systems, Blockchain Concepts and Applications, Systems Software, Software Engineering

Experience

Software Engineer - Nano Human Initiative, Lehigh University   January 2020 – September 2021
- Small undergraduate team lead by Lehigh's Dr. Brian Chen to create a graphic user interface for remote control and viewing of electron microscopes.
- Team leader of four assigned with the task of implementing a custom Python library developed by the manufacturer of Lehigh's electron microscope into our existing website.
- Developed 30+ pages of documentation on state-of-the-art Python library to control electron microscopes.
- Communicated and worked with team located across the globe with 12 hour time differences.

Projects

Solidity Developer – JossToken   September 2021 – Present
- Learned Solidity best practices to develop an ERC-20 token with unique token mechanics.
- Deployed contract using Hardhat environment.
- Implemented Ethers.js library to interact with the smart contract at jossduff.com.

Blockchain Developer – Blockchain Data Structures   October 2021 – Present
- Coding in Rust to create Merkle tree and block data structures to create a mock blockchain.

Full Stack Developer – Buzz   September 2021 – Present
- Worked with small team to develop message board application for software engineering class.
- Practiced agile development with two-week sprints and SCRUM management.
- Worked on the back end with Maven and Heroku, Android front end with Flutter, and as project manager.

Frontend Developer – jossduff.com   January 2021 – Present
- Personal website to display projects created with HTML, CSS, and Bootstrap.

Leadership

Vice President – Lehigh Cryptocurrency Club   October 2021 – Present
- Coordinated with Lehigh University to re-instate inactive club.
- Led educational discussions with students about blockchain and cryptocurrency topics.
- Organized and planned club meetings and events.
- Recruited 100+ members.

Skills

Solidity, Ethers.js, Hardhat, Rust, C, JavaScript, Git, HTML, CSS, Python, Java, MySQL, Haskell