

Joss Duff

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Education

Lehigh University – B.S. in Computer Science and Business Bethlehem, P.A.

May 2023

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

Experience

Lead Blockchain Developer – ChainBytes El Salvador

January 2022 – Present

- Undergraduate team of 4 mentored by Eric Grill, ChainBytes CEO and blockchain advisor to the President of El Salvador to verify fair payment of wages to coffee laborers in El Salvador.
- Created an Elements bitcoin sidechain to hold data objects representing the state of coffee on the supply chain.
- Experienced a fluid and exploratory development environment involving a lot of problem solving.
- Practiced SCRUM development with 1 week long sprints and weekly sprint reports documenting our progress.

Decentralized App Developer – Algorand

January 2022 – Present

- Taught myself how to use the Reach platform to create a decentralized crowdfunding application.
- Learned about development on the Algorand blockchain with the community and docs.
- Had weekly 1-on-1 meetings with Algorand developer advocate, Russ Fustino.

Software Engineer - Nano Human Initiative, Lehigh University

January 2020 – September 2021

- Small undergraduate team lead by Lehigh's Dr. Brian Chen to create an interface for remote control 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.
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Projects

Solidity Developer – JossToken

September 2021 – December 2021

- Learned Solidity best practices to develop an ERC-20 token with unique token mechanics.
- Deployed contract using Hardhat environment.

Full Stack Developer – Buzz

September 2021 – December 2021

- 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.
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Leadership

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.
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Skills

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