Arman Uddin

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Education

University of California, San Diego   **San Diego, CA**
B.S. in Mathematics-Computer Science   **Sophomore Year**

CS Courses: Systems Programming, Machine Learning: Algorithms, Software Engineering, Modern Cryptography, Computability Theory, Design and Analysis of Algorithms, Advanced Data Structures

Math Courses: Mathematical Reasoning, Abstract Algebra, Linear Algebra, Discrete Mathematics and Graph Theory, Mathematical Statistics, Probability, Advanced Calculus

Other: Data Science in Practice, Introduction to Research Methods, Language Culture and Cognition, Design of Everyday Things

Work Experience

VedasLabs.io   **New York City, NY(remote)**
Smart Contract Engineer   **Part time, May 2025 - present**

- Leading **smart contract development** for the core protocol, ensuring and prioritizing **business requirements**.
- Created VED VedasLabs token using **Solidity and OpenZeppelin's ERC20** to start the DAO development.
- Integrating the token and governance contracts onto Tally.xyz, enabling **decentralized proposal creation and voting** to mirror industry standard DAO mechanisms and governance handling.
- Ensuring security protocols for the modular contracts using **Foundry framework to test ,** along with the auditing automation tools **Slither, Mythril, and Securify** on top of continuous bug-testing to guarantee safety.

Full Stack Engineer Intern   **Part time, Sep 2024 - May 2025**

- Updated and implemented over **40 api calls** to dashboard, integrating the **routes and controllers** for proper usage.
- Helped the software team use **both global and route middlewares** as a pipeline for data.
- Updated and created javascript files to successfully migrate code to **Strapi V4 for dashboard integration**.
- Managed all **JSON schema** files in every api to match Strapi requirements.

The North Shore Inn   **Crestline, CA**
Website Manager   **Full time, Feb 2022 - Jun 2023**

- Managed website, including **main booking tasks** and additional operations such as room allocation and fees
- Accommodated **all transactions and payments** through hotel site, third party, and over-the-phone payments, enabling complete ease and **flexibility for customers**.

Projects

Hybrid Decentralized Crypto Exchange

- Mirroring a typical hybrid crypto exchange with off chain matching and on chain settlement, balancing gas efficiency and still ensuring trustlessness using zk-STARK proofs and standard features such as safe ERC20 token transfers.
- Building a commission free platform involving spot and margin trading with all order types including rarer features such as OCO orders, transparent fee structure, and UI optimization for advanced traders, ensuring proper customer satisfaction.
- Implementing best security features by utilizing Foundry testing framework, automation audit tools Slither and Mythril, and rigorous exploitation/penetration testing.

Encryption/Decryption Enigma Machine

- Used C Programming to build fully working enigma machines for passwords/messages.
- Implemented multi-layer encryption/decryption rotors as well as rotations for additional security.
- Tested software for both encryption and decryption against random seed combinations of letters.

Skills

- **Languages:** Solidity, TypeScript, C++, Html/Css/JS, Assembly, Python, C, Java
- **Tools:** Foundry/Hardhat, Slither, Mythril, GDB, Valgrind, VSC, Git, MatLab, Pandas/Numpy
- **Interests:** Cool cars and watches