

# Arman Uddin

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## Education

### University of California, San Diego

B.S. in Mathematics-Computer Science

San Diego, CA

Junior Year, Expected 2027

## Work Experience

### VedasLabs.io

#### Smart Contract Engineer Intern

New York City, NY(remote)

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, therefore mirroring industry standard DAO and dApp mechanisms for 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 mainstream data in the company.
- Updated and created javascript files to successfully migrate code to Strapi V4 for optimized dashboard integration.
- Managed all JSON schema files in every api to match StrapiV4 requirements, finishing website development.

### 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 for booking, enabling complete ease and flexibility for customers.

## Projects

### Hybrid Decentralized Paper Trading Crypto Exchange

- Deploying the first ever crypto paper trading platform for beginners to experience and learn real exchange simulation.
- 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 for complete safety of customers' holdings.

### Trustless Lottery DApp with Chainlink VRF & Automation

- Designed and implemented a fully decentralized raffle system in Solidity with Foundry, enabling users to enter a lottery and receive provably random results on-chain, with test coverage, modular architecture, and efficient state transitions.
- Integrated Chainlink VRF v2 to provide true tamper-proof randomness of choosing from the pool of lottery participants, ensuring fairness in winner selection without centralized trust assumptions, via async callbacks and on-chain verification.
- Utilized Chainlink Automation to trigger time-based winner selection and prize distribution without manual intervention.

### Encryption/Decryption Enigma Machine

- Built fully functional Enigma machine simulators in C for encrypting and decrypting messages and passwords, replicating historical multi-layer rotors, position offsets, and dynamic character mappings for enhanced security simulation.
- Tested the system for accuracy and reliability against randomized values and combinations to ensure consistent encryption.

## Skills

- **Languages:** Solidity, TypeScript, C++, Html, Css, JavaScript, Assembly, Python, C, Java, Rust, Go
- **Tools:** Foundry/Hardhat, Slither, Mythril, GDB, Valgrind, VSC, Git, MatLab, Pandas/Numpy, CL Oracles