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, Modern Algebra, Linear Algebra, Discrete Mathematics and Graph Theory, Optimization Methods for Data Science, 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 into **Tally.xyz**, enabling **decentralized** proposal creation and voting.
- Ensuring security protocols for the modular contracts using **Foundry and Hardhat**, rigorously bug-testing to guarantee safe contracts.

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

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 everyday words and random combinations.

Virtual Memory Allocator

- Created a virtual machine for memory allocation (malloc) and memory freeing.
- Used best-fit policy to create an allocator while also block splitting and updating status bit and previous bit. Returns address to payload.
- Built a memory free function, incorporated block coalescing using block footers and headers.

Skills

- **Languages:** Solidity, Html/Css/JS, Assembly, Python, C++, C, Java
- **Tools:** Foundry/Hardhat, Remix, GDB, Valgrind, VSC, Git, MatLab, Pandas/Numpy