

Arman Uddin

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Education

University of California, San Diego B.S. in Mathematics-Computer Science

San Diego, CA
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

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

Work Experience

VedasLabs Inc.

New York City, NY(remote)

Full Stack Developer Internship

Part time, Sep 2024 - Now

- Implemented over **20 api calls** to dashboard, integrating both their **routes as well as controllers** for proper usage.
- Helped the software team build and use **both global and route middlewares** as a pipeline for data.
- Used javascript to add **plugins such as AWS** for optimal features and customization in the dashboard.
- Used **SCSS** as the main language for UI customization and **styling**.
- Tools/skills learned include git/github, json, js, and scss.

The North Shore Inn

Crestline, CA

Website Manager

Full time, Feb 2022 - Jun 2023

- Managed website, including **main booking and payment tasks** and additional operations such as room allocation and fees based on conditional situations.
- Performed main **reception tasks** at lobby as needed.

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.

Transaction Contract

- Built a solidity smart contract that secures blockchain transactions.
- Uses contracts as main functions to ensure safe and decentralized payments.

Websites

- [personal website](#)
- [weather website](#)
- [hotel booking website](#).

Skills

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