

# Arman Uddin

San Diego, CA | (909) 632 9915 | [armantausif64@gmail.com](mailto:armantausif64@gmail.com) | [Linkedin](#) | [Github](#)

## 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, Advances 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 simple solidity transaction that secures a payment through decentralized finance.
- Uses contracts in solidity to ensure proper safe payment.

### 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