

# MAHIKA SHAH

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## EDUCATION

### University of California, Merced

Bachelor of Science in Computer Science and Engineering

Merced, CA

August 2023 - December 2026

## WORK EXPERIENCE

### Blockchain and Web3 Security Research Externship Intern

July 2024 – August 2024

Webacy and Extern

Research

- Conducted comprehensive blockchain technology analysis, by identifying emerging blockchain technologies, assessing market positioning and technological offerings, to identify industry trends and innovation opportunities
- Analyzed Web3 security competitors of non-mainstream Web3 security startups, delineating product offerings, strategic market placement, and consumer insights to spotlight potential market disruptors
- Created strategic market map, culminating cutting-edge blockchain solutions tailored to enhance company competitiveness in digital landscape

## PROJECTS

### HTML Personal Portfolio | *HTML, CSS, JavaScript* | [Live Demo](#)

October 2024

- Built an interactive **front-end** personal portfolio with **VSCode**, highlighting projects, personal information, and education.
- Showcased proficiency in front-end development, responsive design, and attention to detail.

### FixIt - AI Code Debugger | *Python* | [Live Demo](#)

October 2024 – December 2024

- Developed an AI-powered code debugger using Python to identify and suggest fixes for common programming errors.
- Integrated natural language processing to provide clear explanations of errors and debugging recommendations.
- Showcased expertise in artificial intelligence, Python programming, and developer tools.
- Demonstrated impact by enhancing efficiency and accessibility for novice programmers.

### AlzMem - Alzheimer Retention Program | *C++* | [Live Demo](#)

October 2024 – December 2024

- Developed an Alzheimer's retention helper program to aid memory recall and track patient progress.
- Designed user-friendly interfaces for patients to input daily activities and reminders.
- Demonstrated expertise in healthcare-focused software development, user experience design, and data security compliance.
- Implemented a data-sharing feature that securely sends progress reports to healthcare providers.

### Crypto - Cryptocurrency tracker | *Postgres SQL* | [Live Demo](#)

October 2024 – December 2024

- Developed an NFT and cryptocurrency tracker using PostgreSQL to manage transactions, wallet balances, and market data.
- Designed a normalized database schema to efficiently store and retrieve token-related information..
- Integrated external APIs to fetch up-to-date market prices and transaction details.
- Showcased expertise in database design, financial data handling, and PostgreSQL optimization.

### Tic Tac Toe: Unbeatable AI Tic Tac Toe game | *C++* | [Repo](#)

December 2024

- In progress

### PlanIt: Automated itinerary generator | *HTML, CSS, Javascript* | [Live Demo](#)

January 2025

- In progress

## TECHNICAL SKILLS

**Programming Languages:** Assembly, C, C++, Python, Java, Postgres SQL, HTML, Javascript, CSS, Latex

**Programming Frameworks:** PyTorch, Huggingface, Pandas, Numpy, Matplotlib, Seaborn, Sklearn

**Languages:** English (Native), Gujarati (Native), Hindi (Proficient)