

VISHRUT MALHOTRA

San Francisco, CA | +1 (415) 632-7673 | vishrutmalhotra4@gmail.com

EXPERIENCE

Danieli Corus | *Full Stack Dev Intern*

Jun 2025 - Aug 2025

- Developed a Flask + React platform to sync 10k+ records/min with OAuth2, RBAC, and AES encryption, improving data accuracy by 35%.
- Reduced system downtime by 25% via retry logic, caching, and exception handling.
- Contributed to open-source integration tools, enhancing deployment pipeline efficiency.

Simulanis | *Frontend Developer – React & GraphQL (AR/VR)*

Dec 2025 - Jan 2026

- Developed responsive React components from Figma for AR/VR training modules used by 5,000+ users.
- Integrated GraphQL APIs, reducing frontend load time by ~30% and enabling real-time updates.

Bharat Electronics Ltd (BEL) | *Software Dev Intern*

Jun 2023 - Aug 2023

- Created a Flask/Shell dashboard to monitor 32+ IoT sensors with real-time metrics and visual alerts.
- Deployed Docker containers and set up CI/CD pipelines, accelerating test/deploy cycles by 40%.

PROJECTS

T'chaka Haitian Restaurant | *Full-Stack Web App* | <https://www.tchakaoak.online>

Aug 2025 - Oct 2025

Independent Project (Pro Bono)

- Built and deployed a complete restaurant management system using React, Tailwind, Flask/FastAPI, and PostgreSQL, featuring menu, reservations, and SMS notifications via Twilio.
- Delivered pro bono to support a local Haitian restaurant, implementing a responsive design, admin dashboard, and CI/CD pipeline via Railway.

Carbon Emission Tracker | *Project*

Jun 2025 - Present

Independent Project

- Developed a CI-integrated dashboard using Next.js, TypeScript, and Prisma to estimate carbon output for 20,000+ GitHub CI jobs, enabling a ~15% CO2 reduction.
- Implemented real-time carbon badge generation and AI-powered insights using OpenAI o4 Mini and DeepSeek V3, improving developer sustainability feedback.

Fake News Detector | *Project*

Jan 2024 - Mar 2024

Guided by Prof. Jose Ortiz Costa (SFSU)

- Built a machine learning classifier using TF-IDF and logistic regression, achieving 92% accuracy on 20k+ samples.
- Deployed a Flask API with LIME/SHAP explainability, Dockerized for <200 ms latency and 10k+ daily requests.

Autonomous SOC Bot | *Project*

Oct 2023 - Dec 2023

Guided by Prof. Anthony Souza (SFSU)

- Engineered a SOC automation system integrating SIEM ingestion, threat enrichment, ML-based triage, and auto-response workflows.
- Visualized triage metrics via a Flask dashboard and trained a Random Forest model with 15+ engineered features.

SecurePass Password Manager | *Project*

Jul 2023 - Aug 2023

Independent Project

- Created a CLI password manager using AES-256-GCM and PBKDF2 encryption for secure credential storage.
- Enhanced usability with clipboard auto-clear, password strength meter, and environment isolation.

EDUCATION

San Francisco State University

2022 - 2026

B.S., Computer Science

- Coursework:** Data Structures & Algorithms, Web Development, Operating Systems, Linear Algebra, Human-Computer Interaction, Discrete Mathematics, Introduction to Databases, Calculus II, Software Engineering, Computer Networks

ACHIEVEMENTS

- Black Hat USA 2025 Scholarship Recipient:** Selected to attend the prestigious cybersecurity conference in Las Vegas on full scholarship, recognizing excellence and commitment to the field of information security.

EXTRACURRICULAR

SFSU Cybersecurity Club | *Member*

Jan 2023 - Present

- Led a workshop on AES password managers; participated in CTFs and weekly security sessions.

SFSU Chess Club | *Member*

Sep 2022 - Present

- Attended strategic gameplay sessions and tournaments; improved tactical thinking through classical game analysis.

SFSU Automotive Club | *Member*

Feb 2024 - Present

- Proposed event strategies to improve outreach; attended meetups on automotive innovation.

SKILLS

- Technical:** Python, JavaScript, React/Next.js, Flask, Docker, Kubernetes, Git, Prisma, scikit-learn, NLTK, TypeScript
- Soft:** Problem-solving, Communication, Adaptability, Collaboration, Time-management, Critical-thinking