# /ats Narsaria

3 858-241-1808 ■ vnarsaria@ucsd.edu ☐ linkedin.com/in/vats-narsaria/

github.com/vatsnarsaria7

#### Education

# University of California San Diego

Expected June 2026

Bachelor of Science in Computer Science (GPA: 3.80 / 4.00)

San Diego, CA

• Relevant Coursework: Recommender Systems and Web Mining, Software Engineering, Advanced Data Structures, Design & Analysis of Algorithms, Computer Organization & Systems Programming, Econometrics

# Experience

**ESB.AI Lab** 

September 2024 - Present

Research Assistant

San Diego, CA

- Contributing to the design and development of a Swift-based mobile app for farmers to capture crop images and collect metadata for machine learning models.
- Implementing backend integration to utilize machine learning models for processing and analysis of collected data.

We Care Insurance

July 2024 - October 2024

Front-End Developer Intern

Omaha, NE

- Collaboratively developed the front-end of an insurance management system and led the migration of over 5,000 lines of code from JavaScript to React.
- Designed and implemented key components, including the login page, signup page, and user dashboard
- Utilized Bootstrap for styling and Axios for API integration to handle user authentication and data retrieval.
- Tested APIs using Postman and ran containerized applications with Docker/docker-compose, streamlining development workflows.
- Managed version control for a team of developers using **Bitbucket**, ensuring smooth collaboration and deployment.

### IT Services, UCSD

September 2023 - Present

Field Technician

San Diego, CA

- Provided technical support for over 1,800 workstations across instructional labs, assisting faculty, staff, and students with hardware and software issues.
- Streamlined asset management and work order tracking using ServiceNow and Maximo.

# **UCSD Computer Science Department**

September 2023 - December 2023

Instructional Assistant

San Diego, CA

- Tutored CSE8A: Introduction to Python Programming, supporting over 500 students in mastering foundational programming concepts, including loops, functions, and data structures.
- Provided individualized guidance during office hours, clarifying complex topics and fostering academic success for a diverse cohort of learners.

# **Projects**

#### Roommate/Suite Management Web App | React, Next.js, Firebase

- Designed and developed a web app to help UCSD students manage shared living spaces, featuring profile management, task tracking, calendar integration, and a points-based system for gamified task completion.
- Built the frontend using React and Next.js, integrating Firebase for data storage and Tailwind CSS for responsive styling.

### **Model Rocket Avionics System** | *Arduino, Kalman Filter, SolidWorks*

- Designed, constructed, and launched a G-class model rocket with an advanced avionics system using Arduino Nano and sensors to measure altitude and acceleration.
- Implemented a Kalman filter for enhanced data accuracy and automated parachute deployment, improving descent control and ensuring reliable recovery.
- Contributed to CAD development in SolidWorks, simulation setup, and avionics programming, ensuring a successful launch and recovery.

### Technical Skills

Languages: JavaScript, Java, Python, HTML/CSS, TypeScript, C++, Arduino

Libraries: React.js, Bootstrap, Tailwind CSS, Node.js

Development Tools: Docker, Postman, ServiceNow, Version Control (Git)