

Aniket Pratap

858-353-6626 | aniketpx@gmail.com | <https://aniketpratap.netlify.app/>

EDUCATION

University of California San Diego

Master of Computer Science

Expected Jun 2026

University of California Irvine

Bachelor of Computer Science

3.83 GPA

Graduated Jun 2024

EXPERIENCE

Algorithms Intern

June 2025 - Sept 2025

KLA - MACH Team

Ann Arbor, MI

- Developed a high-performance physics simulation using CUDA to model wafer etching processes
- Implemented parallel particle interactions using CUDA threads, enabling concurrent etching computations
- Accelerated compute pipeline by 100× through GPU parallelization, cutting client runtime from hours to minutes

Software Engineering Intern

Apr 2024 - Sept 2024

Ekastar

Remote

- Developed features for Ekastar's Order Management System, which supported daily client transactions and improved platform stability
- Built dashboards in React/TypeScript to track product data and delivery, reducing manual reporting by 30%
- Implemented secure .NET API authentication, scaled reliably to 10,000+ accounts with reduced access errors

NLP Researcher

June 2023 - Apr 2024

University of California Irvine

Irvine, CA

- Architected a machine learning model using live scraped data to analyze user intention, which governed a bot to facilitate chat conversations
- Fine-tuned GPT2 using PyTorch and user data to achieve an accuracy of 98% when analyzing user sentiment, leading to refined bot messages and user engagement in focus groups
- Implemented NumPy and vectorization to speed model training by 40%

Software Engineering Intern

June 2022 – Aug 2022

Cordis

San Diego, CA

- Automated sales mapping across 800 territories, eliminating a week of manual input and boosting team productivity
- Designed a web training program to onboard 1000+ business analysts, saving \$10K by replacing third-party solutions

PROJECTS

ZotClass | React Native, Android, iOS, ZotAPI

<https://github.com/xXViridianXx/ZotClass>

- Developed a full-stack React Native super-app enabling UCI students to explore available courses effortlessly
- Implemented ZotAPI to retrieve real-time class status, descriptions, and prerequisites to enhance user experience
- Scaled app to serve 1000+ active users

ZotAPI | Python, BeautifulSoup, AWS, Lambda, DynamoDB

<https://github.com/xXViridianXx/Zot-API>

- Designed a Python web scraper to extract, parse, and clean data from university course listings, forming the backbone of a robust API
- Improved scraping performance by 99% using AWS Lambda for distributed execution, ensuring faster data processing and storage in DynamoDB for efficient querying

TECHNICAL SKILLS

Programming: Python, C/C++, C#, CUDA, SQL, JavaScript, Swift

ML/AI: PyTorch, TensorFlow, NumPy, Pandas

Web/Full-Stack: React, React Native, Node.js, Flask, Django, Tailwind, Redux

Cloud/Tools: AWS, Docker, Git, Firebase, Tableau, Oracle Analytics, Figma