Aniket Pratap

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EDUCATION

University of California San Diego
Master of Computer Science — *Expected Dec 2025*

University of California Irvine — 3.83 GPA
Bachelor of Computer Science — *Graduated Jun 2024*

TECHNICAL SKILLS

Languages: Python, C, C++, C#, .NET, DOT, HTML, CSS, JavaScript, SQL, R, Swift, CUDA
Frameworks: React, React Native, Tailwind, Node.js, Flask, Django, Bootstrap
Developer Tools: Vim, Git, Docker, Firebase, npm, Figma, Tableau, Oracle Analytics Cloud
Libraries: Axios, Pandas, NumPy, TensorFlow, PyTorch, Redux

EXPERIENCE

Algorithms Intern — Present - Sept 2025
KLA - MACH — *Ann Arbor, MI*
- Parallelizing ProEtchCL with CUDA to do high-performance physics simulations

Software Engineering Intern — Apr 2024 - Sept 2024
Ekastar — *Remote*
- Collaborated with the software development team on Ekastar.com and Order Management System
- Engineered 3+ dynamic dashboards using React, Tailwind CSS, and TypeScript, enabling customers to monitor product data, delivery status, and automation
- Integrated 4 user authentication pages with .NET API endpoints, enhancing security and user experience

NLP Researcher — June 2023 - Apr 2024
University of California Irvine — *Irvine, CA*
- Scraped web text data to craft a machine learning model 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 increase model training speeds by 40%, allowing for a faster iterative training process

Software Engineering Intern — June 2022 – Aug 2022
Cordis — *San Diego, CA*
- Spearheaded the transition of 1000 analysts from Tableau to Oracle Analytics by developing a comprehensive web-based training program, saving the company $10,000
- Boosted productivity by automating the sales mapping process for 800 regions using Python, Pandas, and NumPy, reducing manual data input and saving a week of labor
- Published 20 dynamic dashboards utilizing Oracle Analytics Cloud and a data warehouse, improving profit forecasting and sales targets

PROJECTS

ZotClass | *React Native, Android, iOS, ZotAPI* — [Download](#)
- 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
- Had over 1000+ active users

ZotAPI | *Python, Beautiful Soup, AWS, Lambda, DynamoDB* — [Link](#)
- 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
- Empowered UCI students by offering a versatile API widely adopted for course-related projects