Chinmay Dandekar

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PROFILE

Motivated college **senior** with a strong background in Computer Science and Mathematics, seeking a summer internship in the technology industry to apply my skills and further develop my passion for software engineering.

Availability: June 16 - September 22, 2025

EXPERIENCE

Software Engineer Intern at Sandia National Laboratories **June 2024 - August 2024**

- Collaborated with a team of 10 to translate MATLAB code into Python for simulating Sandia's Z-machine and wrote unit tests
- Developed Python tools that reduced testing time by 20% and debugging time by 10%

Undergraduate ML Researcher at UCSB NLP Group **January 2024 - August 2024**

- Research Assistant in CMU Professor Lei Li's Lab where I worked on machine learning research and tools to support research

Undergraduate Learning Assistant at UC Santa Barbara **January 2024 - Present**

- Supported and helped instruct 100 students in Discrete Mathematics, by teaching logic, algorithms and proof techniques

Data Science Intern at Compusharp Inc **Summer 2020**

- Used Python Pandas, Numpy and Matplotlib to do data cleansing, visualization on data about 88,000 wildfires and constructed a basic exponential regression model for electrical-induced wildfire prediction

PROJECTS

Translation Canvas - A Python Package **June 2024 - August 2024**

- Developed Translation Canvas, a pip package that enhances machine translation (translation between languages) model evaluation.
- Implemented a Python Flask backend and an interactive frontend using Jinja, HTML, CSS, and JavaScript, with a DuckDB integration for efficient data management.
- Significantly improved error analysis while outperforming traditional metrics in enjoyability, empowered researchers with deeper insights into translation performance.

FASST: Fast LLM-Based Simultaneous Speech Translation **January 2024 - June 2024**

- Worked on developing FASST, a fast large language model based method for streaming speech translation using blockwise-causal speech encoding and consistency mask
- Improved performance over state-of-the-art model by 1.5 BLEU under same latency for English to Spanish translation.

HappyCows Website Development **September 2023 - December 2023**

- Used Kanban in a team of 6 to follow full Software Development Lifecycle using Agile.
- Picked up issues from the Kanban board, implemented features, wrote unit tests to gain full mutation testing and line testing coverage.
- Improved UI for users and added functionality to admin users.
- Deployed with Java Spring Boot, React.js, Postgres Database GoogleOauth and Docker on Dokku, using GitHub for CI/CD.
- Developed features like a last date that stops a commons event that communicates using REST API over HTTPS

Website - Piggy Finance **December 2023**

- Built a website using React.js frontend and Python Django backend that communicates using REST API over HTTPS
- Hosted using AWS EC2, CDN by AWS CloudFront and Route 53, connected to AWS DynamoDB, with SSL from ACM
- Docker containerized webapp with a Nginx reverse proxy to pass requests to frontend and backend, with GitHub for CI/CD

EDUCATION

University of California, Santa Barbara, CA **Expected Graduation - June 2026**

B.S. in Computer Science and Mathematics in College of Creative Studies (Honors College) **GPA - 3.93**

(Expected) M.S. in Computer Science (Fall 2025 - Spring 2026)

Languages/Packages: Python (6 years), Java, SQL, C++, Javascript, HTML, CSS, Jinja; Java Spring Boot, Python Flask, Python Django, React.js, PyTest; PyTorch, OpenCV, Fairseq, Huggingface; Numpy, Pandas, Matplotlib, Boto3, Socket, TCP/IP, DNS, DHCP

Skills/Technologies: Agile, GitHub, Linux, Artificial Intelligence, Machine Learning, LLMs, Postgres, MySQL, MongoDB, AWS, Linear Algebra, Socket Programming

Coursework: Data Structures & Algorithms, Deep Learning, Databases, Computer Networks, Computer Architecture, Computer Vision, Compilers, Scientific Computation, Advanced Linear Algebra, Probability, Linear Programming, Number Theory