

Anish Pahilajani

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EDUCATION

UNIVERSITY OF CALIFORNIA SANTA CRUZ

Masters of Science (M.S) in Natural Language Processing (NLP) (2023 to 2024) Santa Clara, CA

- Relevant coursework: Deep Learning, NLP I, Data Science and Machine Learning

Bachelors of Science (B.S) Honors in Computer Engineering, minor in Computer Science (GPA: 3.78/4.0) Santa Cruz, CA

- Relevant coursework: **Applied Machine Learning, Parallel Programming, Algorithm & Data structures**
- Awards: Dean's Honors: Winter 2022, Fall 2021, Spring 2021, Winter 2021, & Fall 2020
- Clubs: Santa Cruz AI, Tau Beta Pi (Engineering Honor Society), START (Student research)

WORK EXPERIENCE

University of California Santa Cruz

April 2023 - Present

Machine Learning Engineer

- Collaborated with researcher Leilani Gilpin to advance AI model explainability through sentiment analysis within Large Language Models (LLMs).
- Investigated LLM introspection to unveil the decision-making processes underlying sentiment predictions.
- Enhanced model trustworthiness & transparency in AI applications through cutting-edge research.
- Modified open-source Fast Chat (LLM based on LLaMa) to perform sentiment analysis on 8,500 data points & evaluate the accuracy of LLM in sentiment prediction.

Amazon (Amazon Web Services)

Jun 2022 – Sept 2022

Software Development Engineer Intern/AWS Global Accelerator team

Seattle, WA

- Engineered the SIM Sleuth tool using **Object Oriented Design**, enhancing ticket mitigation with automated updates, graphs, & text data.
- Developed a Python Lambda function triggered by tickets, retrieving & updating information from **JSON** files in Amazon code base.
- Leveraged CloudWatch for graph storage, Amazon S3 for data uploads, & unittest.mock library for API testing.
- Agile methodology & Scrum principles applied to enhance development processes.

Amazon (Amazon Web Services)

Jun 2021 – Sept 2021

Software Development Engineer Intern/AWS Global Accelerator team

Seattle, WA

- Designed & implemented Intuitive Packet Capture tool in GoLang, automating packet capture and analysis.
- Orchestrated concurrent packet capture on multiple hosts, merged pcap files, & uploaded results to S3 bucket.
- Demonstrated proficiency in AWS S3 API, GoLang, & network protocols.

LeNgineer

Sept 2020 – Feb 2021

R&D Software Engineer Intern

Titusville, FL

- Explored computer vision with OpenCV & pre-trained object detection libraries.
- Managed image data for object detection projects, enhancing algorithm accuracy.

UC Santa Cruz

Mar 2020 – June 2021

- Assisted in teaching Concurrent & Parallel programming in C++ & Programming abstractions in Python.

TECHNICAL PROJECTS

Software Engineering capstone project: Retyrn company

Jan 2023 - June 2023 Palo Alto, CA

- Led **backend web development** of an insurance claim filing web application using Python, FastAPI, & SQL.
- Collaborated with a team to design, implement, & deploy the application On AWS using EC2, S3, RDS, Docker

TECHNICAL SKILLS & FRAMEWORKS

Languages: Python, C, C++, GO Lang, Java Script

Tools & Platforms: Linux OS, Scrum & Agile, Amazon Web Services (AWS), Git, Docker, PostgreSQL database.

Frameworks & Libraries: NumPy, Pandas, Scikit-learn, Tensorflow/Keras, PyTorch, FastAPI, SQLAlchemy