# **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

- Collaborating with researcher Leilani Gilpin to advance AI model explainability through sentiment analysis within Large Language Models (LLMs).
- Investigating LLM introspection to unveil the decision-making processes underlying sentiment predictions.
- Aiming to enhance model trustworthiness and transparency in AI applications through cutting-edge research.
- Developed a GPT-based transformer inspired by Andrej Karpathy's nano GPT, tailored for modern English text generation.

Bachelors of Science (B.S) Honors in Computer Engineering, minor in Computer Science (GPA: 3.78)

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**

## **Amazon (Amazon Web Services)**

Jun 2022 - Sept 2022

Software Development Engineer Intern/AWS Global Accelerator team

Seattle, WA

- Engineered the SIM Sleuth tool, enhancing ticket mitigation with automated updates, graphs, and text data.
- Developed a Python Lambda function triggered by tickets, retrieving and updating information from Amazon code base.
- Leveraged CloudWatch for graph storage, Amazon S3 for data uploads, and unittest.mock library for API testing.
- Agile methodology and 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 and implemented Intuitive Packet Capture (ipcap) tool in GoLang, automating packet capture and analysis.
- Orchestrated concurrent packet capture on multiple hosts, merged pcap files, and uploaded results to S3 bucket.
- Demonstrated proficiency in AWS S3 API, GoLang, and network protocols.

LeNgineer Sept 2020 – Feb 2021

R&D Software Engineer Intern

Titusville, FL

- Explored computer vision with OpenCV and 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 and Parallel programming in C++ and Programming abstractions in Python.

#### **TECHNICAL PROJECTS**

## **Software Engineering capstone project: Retyrn company**

Jan 2023 - June 2023 Palo Alto, CA

- Led backend development of an insurance claim filing web application using Python, PyTorch, FastAPI, and PostgreSQL database.
- Collaborated with a team to design, implement, and deploy the application On AWS using EC2 Instance, S3 and RDS

## **TECHNICAL SKILLS & FRAMEWORKS**

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

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

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

**Databases**: PostgreSQL