

AKASH G

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Experience

Amazon

August 2021 – August 2022

Software Development Engineer

Chennai, India

- Automated the FireTV business reporting and disbursement pipeline.
- Built a multi-dimensional device customization system to scale the FireTV ecosystem.
- Enabled touch input and full remote compatibility for FireTV Auto devices.

Amazon

January 2021 – July 2021

Software Development Engineer Intern

Chennai, India

- Built a system to seamlessly onboard new programs into the FireTV ecosystem.
- Developed an OTA software update publishing system that can target specific programs and device types.

Madbee

May 2019 – May 2019

Software Development Engineer Intern

Chennai, India

- Built responsive websites using React and Flask.
- Automated manual tasks using Python to save 20 hours/week of development effort.
- Set up CI/CD pipelines in Azure DevOps for existing applications.

Education

Stony Brook University

August 2022 – December 2023

Master of Science in Computer Science

Stony Brook, New York

- Research Assistant at Computer Vision lab and Stony Brook AI institute.
- Teaching Assistant for CSE 303: Theory of Computation.

Amrita School of Engineering

June 2017 – June 2021

Bachelor of Technology in Computer Science, GPA: 9.26/10 with Distinction

Coimbatore, India

Publications

Toxic Comment Classification using Transformers | *IEOM 2021*

March 2021

- Classifying comments from online discussion forums based on their toxicity using NLP-based transformers architecture.

Projects

COVID-19 Tracker Dashboard | *Flask, HTML/CSS, Pythonanywhere*

January 2021

- Web application to display the statistics of COVID-19 infection rates with state and district-level granularity.

Faculty Dashboard | *React, NodeJs, MySQL, Heroku, GitHub pages*

January 2020

- Web application for the faculty to manage course plans, timetables, leaves, and announcements.

Voice-based Transport Enquiry System | *React, NodeJs, OracleDB, Heroku*

October 2019

- Web application to book bus tickets with support for voice commands and text-to-speech.

Malicious Webpage Detection | *Python, Scikit, BeautifulSoup*

June 2019

- Machine learning model that extracts parameters from a web page to detect malware.

License Plate Detection | *Python, Scikit, OpenCV*

August 2018

- Deep learning model that extracts license plate numbers from a real-time video feed.

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, Ruby

Web Frameworks: React, NodeJS, Flask, Spring

Databases: MySQL, DynamoDB, MongoDB, Cassandra

Extracurricular

Amrita School of Engineering

June 2017 – June 2021

- Hosted AI Adept competition as part of Anokha TechFest 2020, which involved building a machine learning model for a small dataset at Anokha TechFest 2020.
- Hosted Figure 'em all competition as part of Anokha TechFest 2020, that had problems from various domains of CS.
- Volunteered for over 100 hours at the University's chapter of the National Service Scheme from 2017-2020.