



# 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 – August 2024

*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.