

# AKASH G

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## Experience

### TBL Building Sciences

May 2023 – August 2023

*Software Development Engineer Intern*

*New York City, New York*

- Designed and developed a new microservice that aggregates metrics from 500+ sensors from around the world.
- Developed a new configuration system to customize the user experience on the web application.

### Amazon

August 2021 – August 2022

*Software Development Engineer*

*Chennai, India*

- Designed and developed a multi-dimensional device customization system to scale the FireTV ecosystem.
- Unified and automated several FireTV business reporting and disbursement pipelines.
- Enabled touch capability with full remote compatibility for FireTV Auto devices.

### Amazon

January 2021 – July 2021

*Software Development Engineer Intern*

*Chennai, India*

- Designed and built a system to seamlessly onboard new partner programs into the FireTV ecosystem.
- Developed an OTA software update publishing system with program and device type granularity.

### Madbee

May 2019 – May 2019

*Software Development Engineer Intern*

*Chennai, India*

- Developed multiple end-to-end applications from scratch using React and Flask.
- Setup CI/CD pipeline infrastructure for the existing applications in Azure DevOps.

## Education

### Stony Brook University

August 2022 – December 2023

*Master of Science (Thesis) in Computer Science, GPA: 3.67/4*

*Stony Brook, New York*

- Research Assistant at Stony Brook AI Institute and Computer Vision Lab.
- 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*

- Undergraduate Student Researcher at the Smart Spaces Lab and the Cyber Security Lab.

## Publications

### Toxic Comment Classification using Transformers | *IEOM 2021*

March 2021

- Classifying comments based on the toxicity using LSTM, GRU, CNN, and Transformer architectures.

## Projects

### ViT Decision Transformer | *Python, PyTorch, HuggingFace*

April 2023

- Sequence model that predicts future actions based on past interactions and desired returns for robot control.

### Shadow Removal Diffusion | *Python, PyTorch, OpenCV, Tensorflow*

December 2022

- Diffusion model that removes shadows from images through conditioning.

### 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.

## Technical Skills

**Programming Languages:** Python, Java, C, C++, JavaScript, TypeScript, Ruby, Kotlin, Lisp.

**Technologies:** React, Flask, NodeJS, NestJS, Spring, PyTorch, Tensorflow SQL, DynamoDB, MongoDB, GraphQL, Cassandra, MapReduce, Hadoop, Kafka, AWS, GCP, Azure.

## Extracurricular

- Hosted AI Adept and other competitions as part of Anokha 2020, a nationwide TechFest.
- Volunteered for over 100 hours at the University's chapter of the National Service Scheme from 2017-2020.