

AKASH G

akashsuper2000.github.io

☎ +1-631-406-0836

✉ akashsuper2000@gmail.com

🌐 linkedin.com/in/akash-g

🐙 github.com/akashsuper2000

Experience

TBL Building Sciences

May 2023 – August 2023

Software Development Engineer Intern

New York City, New York

- Created a microservice that aggregates metrics from 500+ sensors from around the world.
- Developed a new configuration system to customize the user experience on the dashboard.

Amazon

August 2021 – August 2022

Software Development Engineer

Chennai, India

- Designed a multi-dimensional device customization system to scale the FireTV ecosystem.
- Unified and automated 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 a new system to seamlessly onboard new partner programs into the FireTV ecosystem.
- Developed an OTA software update publishing system with multi-dimensional granularity.

Madbee

May 2019 – May 2019

Software Development Engineer Intern

Chennai, India

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

Education

Stony Brook University

August 2022 – May 2024

Master of Science in Computer Science, GPA: 3.7/4

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: 9.3/10 with Distinction

Coimbatore, India

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

Projects

LLM Chatbot Tutor - Pi School | *Python, Streamlit, LangChain, OpenAI*

August 2023

- A Socrates' style LLM-bot to supplement primary school education in Italy.

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

November 2022

- Diffusion model that removes shadows from images through conditioning.

Text Analysis and EDA | *Numpy, Pandas, Matplotlib, Sklearn, Seaborn*

January 2021

- Exploratory data analysis and text scoring based on content, quality, and readability.

Faculty Dashboard | *React.js, Node.js, MySQL, Heroku, GitHub pages*

February 2020

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

Voice-based Transport Enquiry System | *Spring, JSP, OracleDB, Heroku*

October 2019

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

Publications

Toxic Comment Classification using Transformers | *IEOM 2021*

March 2021

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

Technical Skills

Programming Languages: Python, Java, C, C++, Typescript, Javascript, HTML, CSS, Ruby, Kotlin, Matlab, Lisp.

Technologies: React.js, Node.js, Nest.js, Express.js, Spring, Flask, Django, Streamlit, PyTorch, Tensorflow, MySQL, MongoDB, GraphQL, Redis, Cassandra, Hadoop, Spark, Apache Kafka, Docker, Kubernetes, AWS, GCP, Azure, Heroku.

Extracurricular

- Served as a Senator for the Graduate Student Organization during the academic year 2023-2024.
- Event Host and Manager for AI Adept and other competitions as part of Anokha 2020, a nationwide TechFest.
- Volunteered over 100 hours at the University's chapter of the National Service Scheme from 2017-2020.