AKASH G

🌐 akashsuper2000.github.io
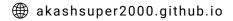
✉ akashsuper2000@gmail.com   📞 +91 7010346200   ⊙ akashsuper2000   in akash-g

WORK EXPERIENCE

Software Development Engineer
Amazon
Aug 2021 - Present   Chennai, India

- Automated the FireTV business reporting and disbursement pipeline
- Built a multi-dimensional customization system to allow ecosystem scalability
- Enabled touch interface for FireTV Auto

Software Development Engineer Intern
Amazon
Jan 2021 - July 2021   Chennai, India

- Implemented a system to allow seamless programs onboarding into the FireTV ecosystem
- Developed an OTA software update publishing system that can target specific programs and device types

Software Development Engineer Intern
Madbee Inc
May 2019 - May 2019   Chennai, India

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

EDUCATION

Master of Science in Computer Science
Stony Brook University
Aug 2022 - Aug 2024   New York, USA

- TA for CSE 303: Theory of Computation

Bachelor of Technology in Computer Science
Amrita School of Engineering
June 2017 - June 2021   Coimbatore, India

- GPA: 9.3/10 with Academic Distinction
- Member of CSI, ACM and IEEE organizations

PROJECTS

Faculty Dashboard
- Stack: React, NodeJS, MySQL, Heroku, GitHub pages
- A web application that allows faculty to manage their course plan, timetable, leaves, and announcements

Voice-based Transport Enquiry System
- Stack: React, NodeJS, OracleDB, Heroku
- A web application to book bus tickets with support for voice commands and text-to-speech

Malicious Webpage Detection
- Stack: Python, Scikit, BeautifulSoup
- A machine-learning model that automatically extracts parameters from a webpage and classifies it based on the maliciousness

COVID-19 Tracker Dashboard
- Stack: Flask, HTML/CSS, Pythonanywhere
- A web application that hosts the statistics of COVID-19 with support for state and district-level granularity

Image Detection and Text Translation
- Stack: Python, Tensorflow, OpenCV
- A deep-learning pipeline that detects text in images and translates it to other languages, complete with a web interface and API support

License Plate Detection
- Stack: Python, Scikit, OpenCV
- A deep-learning model that extracts license plate numbers from a real-time video feed

Social Outreach Program
- Stack: Java, JSP, MySQL, GitHub pages
- A web application for the social outreach program of the University

PUBLICATIONS

Toxic Comment Classification using Transformers
- Classifying comments from discussion forums based on toxicity using NLP-based transformers architecture
- Research Paper presented and published at the IEOM International Conference 2021

ACCOMPLISHMENTS

Competitive Programming
- **ICPC:** National Rank 500 and 200 of 10K+ in the years 2019 and 2020
- **CodeChef:** Global Best Rating 1900
- **HackerRank:** Global Rating 1654 and 5 Gold medals in various programming tracks
- **Computer Society of India CP competition:** National Rank 100/4K+ participants

Machine Learning
- **Kaggle:** Global Best Rank 200 out of over 5 million users with 1 silver and 4 bronze medals
- **MachineHack**: National Rank 50/14K in the 2020 MachineHack competition

Cybersecurity
- **CTFTime**: National Team Rank 100 for over two years by participating in over 10 CTF security competitions every year.

Hackathons
- **Hashcode:** Global Rank Top 1K/30K+ teams for 4 consecutive years in Hashcode conducted by Google
- **IIIT-H Megathon:** Ranked 6/80+ teams by building a multiplayer game using Unity and C#
- **Honeywell Hackathon:** Ranked 4/100+ teams by building a machine-learning model that estimates warehouse pick-up times

TECHNICAL SKILLS

Programming Languages
- Python, Java, C++, Javascript, Ruby

Web Frameworks
- React, NodeJS, Flask, Spring

Cloud services and Platforms
- AWS, Azure, GCP, Heroku

Database services and Platforms
- MySQL, DynamoDB, MongoDB, Cassandra

CERTIFICATIONS

- **Machine Learning** Certification from Stanford University through Coursera
- **Deep Learning** Specialization Certification from Deeplearning.ai
- **Hackerrank** certifications on Advanced Problem Solving, Python, Java, React, JS and RestAPIs

EXTRACURRICULAR

- **Hosted** AI Adept that involves teams solving a complex machine learning problem with a small dataset at Anokha TechFest 2020
- **Hosted** Figure 'em all competition that involves individuals solving problems from various domains of CS at Anokha TechFest 2020
- **Contributor** at GitHub with contributions to multiple open-source projects
- **Volunteered** at the University's chapter of the National Service Scheme from 2017-2020