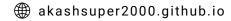# AKASH G

🌐 akashsuper2000.github.io

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WORK EXPERIENCE

Software Development Engineer
Amazon

Aug 2021 - Present   Chennai, India

- Automated the business pipeline for ledger recording and reporting
- Proposed and led design decisions to improve existing scaling systems by 50%
- Built an in-house DVR solution for FireTV

Software Development Engineer Intern
Amazon

Jan 2021 - July 2021   Chennai, India

- Proposed system design to accommodate new 3P partners into the FireTV ecosystem
- Developed an OTA update publishing system from scratch
- Built an internal web application for the same

Software Development Engineer Intern
Madbee Inc

May 2019 - May 2019   Chennai, India

- Built public-facing 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

Bachelors 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
- Technical events lead and NSS volunteer

Higher Secondary in PCM + CS
Amrita Vidyalayam

June 2015 - April 2017   Chennai, India

- 93% with Distinction in Physics
- Student academic head

ACCOMPLISHMENTS

ML Competitions:
- **Kaggle:** Global Best Rank 200 out of over 5 million users with 1 silver and 4 bronze medals https://www.kaggle.com/akashsuper2000
- **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: https://ctftime.org/team/82868

Competitive Programming:
- **CodeChef:** Global Best Rating 1900 https://www.codechef.com/users/akash2000coder
- **HackerRank:** Global Rating 1654 and 5 Gold medals in various programming tracks https://www.hackerrank.com/akashsuper2000
- **ICPC:** National Rank 500 and 200 of 10K+ in the years 2019 and 2020
- **CSI contest 2019:** National Rank 100/4K+

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

CERTIFICATIONS

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

PROJECTS

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

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

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

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 to other languages, with a web interface and an API

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 a social outreach program for the University

PUBLICATIONS

Toxic Comment Classification using Transformers
- Classifying comments from discussion forums based on toxicity using transformers architecture
- Research Paper presented and published at the IEOM International Conference 2021
- http://www.ieomsociety.org/singapore2021/papers/366.pdf

TECHNICAL SKILLS

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

Web Frameworks
ReactJS, NodeJS, Flask, Django, Spring, JSP

Machine Learning
Computer vision, NLP, Time series

Cloud Services and Platforms
AWS, GCP, Azure, Heroku

Database Platforms
MySQL, DynamoDB, MongoDB, Cassandra, Hive, Pig

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 National Service Scheme from 2017-2020