

## WORK EXPERIENCE

Software Development Engineer

**Amazon**

Aug 2021 - Present      Chennai, India

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

Software Development Engineer Intern

**Amazon**

Jan 2021 - July 2021      Chennai, India

- Proposed system design to accommodate new 3P partners into the FireTV ecosystem
- Developed a granular OTA update publishing system for any kind of program or device type
- 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/akash2000c>
- **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

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### 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

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### 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

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### 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

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- **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