

AKSHAY JAIN

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EDUCATION

University of Southern California, Los Angeles

May 2021 (expected)

Master of Science in Computer Science

GPA 3.4/4

Coursework: Algorithms, Artificial Intelligence, Operating Systems, Applied NLP, Web Technologies, Software Engineering

D.J. Sanghvi College of Engineering, Mumbai

May 2019

Bachelor of Engineering in Computer Engineering

GPA 8.96/10

Relevant Coursework: Algorithms, Data Structures, Distributed Databases, Machine Learning, Theoretical CS

EXPERIENCE

Amazon Web Services, Virginia

Software Development Engineer Intern

May 2020 - August 2020

- Worked on large scale learning platform solutions for AWS Training and Certifications Org
- Built a Full Stack Service using Go, React and AWS services for critical customer facing functions of the platform
- Reduced manual developer workload by as much as 3 hours through the service
- Pushed production level code and integrated the service with the rest of the platform with unit and integration tests

USC Autonomous Underwater Vehicle (AUV) Design Team, Los Angeles

Navigation Software Team Lead

September 2019 - November 2019

- Optimized the navigation model for the AUV using ROS by collecting and decoding sensor data from the IMU and computer vision models for faster performance

Bhabha Atomic Research Centre (BARC), Mumbai

Research Intern

September 2018 - January 2019

- Implemented fuzzy TOPSIS methodology to rank uncertainty in medical vital sign measurements to analyze threat levels
- Utilized a deep TSK fuzzy learning model to show improved performance on ambiguous medical data by limiting bias and reducing the need for preprocessing ambiguity

OkCompass (Travel Startup), Mumbai

Software Development Intern

February 2018 - April 2018

- Developed a backend Django model for key business functions and search forms for the database
- Created Python scripts for analyzing search queries to give 30% more accurate results

SOFTWARE PROJECTS

github.com/pixelexel (For more details, open source contributions and other projects)

Stock Market Platform

September 2020 - Present

- Building a Stock Market platform for web and mobile to deliver stocks info (price charts and news) using the Tiingo and NewsAPI APIs with AngularJS, Node.js, AWS as part of CSCI571 at USC

Student Analytics platform, Smart India Hackathon 2018, bit.ly/studentanalyticsplatform

Summer 2018

Innovation Award Winners

- Built a student analytics platform for underprivileged public schools using Django and React to predict students in need of scholarships as the back-end lead for the project
- Developed a unique standardized data input and analysis tool to map diverse formats of student data into our model

Music Generation with RNNs bit.ly/MusicwithRNN

Summer 2018

- Generated brand new music by building a model to capture long term dependencies in musical notes.

Bloggr, A fast blogging platform developed using Django, (Live at bit.ly/Bloggr)

Summer 2017

- Developed a blogging platform using Django with material design, markdown support, user authentication, comments

Twitter Sentiment Bot, bit.ly/SentimentBot

Summer 2016

- Built a Twitter bot to analyze current sentiments about a topic/person using NLP with Node.js and Python

Open Source Contributions: Implemented a component example for a single page PDF viewer for Mozilla's pdf.js platform

SKILLS

Programming Languages: Go, Python, Java, C, JavaScript

Frameworks, Libraries and Platforms: Django, React, Angular, Node.js, Flask, MySQL, Git, AWS services