Ishan Rajesh Madan

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EDUCATION

Santa Clara University (SCU), California **September 2018 – June 2020**

Pursuing MS in Computer Science and Engineering.

Relevant Coursework:- Data Structures & Algos, Cloud Computing, Object Oriented Programming, Computer Architecture.

University of Mumbai **August 2014 - May 2018**

Completed Bachelor of Computer Engineering.

TECHNICAL SKILLS

- **Programming languages & OS** – Python, Java, JavaScript, C#, C++, Windows, Linux, MacOs.
- **Cloud Technologies** – Google Cloud Platform**,** Amazon Web Services, Kubernetes, Docker, Jenkins, Elastic Beanstalk, Heroku.
- **Web Technologies** – Django, REST APIs, NodeJS, Flask, Express, Nginx, REACT, Bootstrap, CSS, JavaScript, HTML5, Angular.
- **Database & SCM** – MySQL, SQLite, Firebase, PostgreSQL, MongoDB , Git.

PROFESSIONAL EXPERIENCE

Rescale Inc, San Francisco **June 2019 – December 2019**

Software Engineering Intern

- Worked as a backend developer to implement API endpoints for Rescale's file uploader feature.
- Wrote the server-side logic in python for the web platform, in Java for the cli, and in C# for the windows desktop app.
- Wrote integration tests, unit tests for testing backend code and wrote UI tests using docker-selenium for testing frontend code.

Air India Ltd, Mumbai **June 2017 – July 2017**

Android Developer Intern

- Developed an emergency SMS or e-mail sending application using Android Studios, PHP, XML, JSON and MySQL.
- Built an online MySQL database to retrieve the contacts to which the message/email is to be sent.
- The android application is currently used by all staff members of the Department of Information Technology (DIT).

Amaze Lifestyle Products Private Ltd., Mumbai **July 2017- Oct 2017**

ETL Engineering Intern

- Extracted data from multiple sources in different source formats using BeautifulSoup, urllib, Selenium, python, etc.
- Pre processed and cleaned data using pandas and python, for ingestion into MongoDB and ElasticSearch databases.
- Used Google Cloud Platform (GCP) to run and test all python scripts and subsequently store all the data collected.

SELECTED ACADEMIC PROJECTS

MEAN Social Posts Website (git-link)

- Built a MEAN stack web application, that allows users to sign up and create posts, and view the posts of other fellow users.
- Backend routes were implemented using Nodejs and Express, frontend using Angular, and MongoDb acted as the database.
- The app is currently hosted live on AWS Elastic Beanstalk, http://social-blogs-app.s3-website.us-east-2.amazonaws.com/.

Bootcamp Directory API (git-link)

- Created a scalable REST API using Nodejs and Express, that allows clients to view bootcamps & its courses, and rate courses.
- The API has protected routes that require authentication and has certain routes that require authorization.
- MongoDB was used to host all data, and the API along with its documentation is currently live on https://ishansbootcamp.live .

Movie Rental API (git-link)

- Built a robust and scalable REST API web app using node.js and express, that allows users to rent movies via genre.
- The API has extensive endpoints which offer CRUD functionalities for all the resources such as movies, genres, rentals.
- Used MongoDb to store data in the backend and deployed the web app on Heroku. Wrote tests for the code, using Jestjs.

SnapSongs Android App (git-link)

- Built a social media app which allows users to send and receive music in the form of stories.
- Incorporated the ffmpeg library in order to trim songs to a 15s sample, which would then be uploaded as the story.
- Used Firebase for authentication and storage, and utilised features of android studios such as fragments for the UI.

Real Estate Price Predictor Website (git-link)

- Built an user friendly website using Flask which allows users to enter inputs such as no of bedrooms, bathrooms, parking slots, location of property, etc and get predicted price as output, for real estate properties in Mumbai.
- Used ensemble regression model viz XGBoost in the backend, to predict prices. Data was extracted from 99Acres.
- Built frontend of the website using HTML, CSS, Bootstrap, and passed parameters to and from backend, in json format.

Charity Donation DApp (git-link)

- Built a test blockchain network using Ethereum and deployed solidity written smart contracts on it using truffle.js, web3.js.
- Built a web application using HTML, CSS and Bootstrap, to simulate a payment portal for charity organisations.

Deep Learning on Cloud (git-link)

- Used Kubeflow to deploy the training of Tensorflow's object detection model on Kubernetes clusters.
- Deployed different setups of Kubeflow on various Kubernetes supported cloud platforms such as AWS, GCP and Azure.
- Benchmarked and marked the performance metrics of the training of the model on each of these clouds.