

RAMA KRISHNA PINNIMTY

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EDUCATION

Master of Engineering in Computer Science

Virginia Tech, Blacksburg, Virginia

May 2023 (Expected)

GPA: 4.0/4.0

Relevant Coursework: Software Engineering, Web Development, Software Project Management, Software Design Quality

Bachelor of Technology in Computer Science

International Institute of Information Technology (IIIT), Bhubaneswar, India

Jun 2019

CGPA: 8.4/10

WORK EXPERIENCE

Graduate Research Assistant | VTTI | Blacksburg, Virginia

03/2022 - Present

- Refactored in-house Driver Annotation System to identify consented drivers present in trip data (ReactJS, Flask, DB2).
- Provided API endpoints to fetch and update collection, vehicle, trip and driver information and tested with Postman.

Software Engineer | Living Analytics | Singapore

08/2019 - 04/2021

- Developed a facial weight-based health monitoring application to encourage users to adopt a healthier lifestyle.
- Architected webapp using Python, Flask and Vue.js to deliver results in real-time handling 10K requests/day.
- Maintained enterprise-level application with Git, Docker and TensorFlow API while adopting MLOps practices.

Machine Learning Intern | MIDAS.ai | New Delhi, India

01/2019 - 05/2019

- Built FaceFetch framework to efficiently retrieve a user-envisioned image when provided with key facial attributes.
- Accomplished 30% reduction in search time to fetch target face from a database with well over 300K images.
- Showcased application to Delhi Police to help identify criminals and ensure safety of women and children.

Software Engineer Intern | First American Corp. | Hyderabad, India

06/2018 - 08/2018

- Remodeled in-house OCR tool using OpenCV, Python and Keras while following the Agile Methodologies.
- Improved watermark detection and removal capability of the tool by 80% to help with Named-Entity Recognition.
- Automated the system to reduce processing time for a single document from 30 minutes to under 2 minutes.

ACADEMIC PROJECTS

[InstaBooks – E-commerce Application](#)

08/2022 - 12/2022

- Created wireframes using Figma and turned it into a Single Page Application (SPA) using TypeScript and Vue.js.
- Implemented REST APIs following DAO design pattern using Java, AJAX, Fetch API and hosted on a Tomcat server.

[Infinity Travel – Flight Booking Service](#)

09/2022 - 11/2022

- Designed frontend using SASS and Vue.js, connected it to a MySQL database with Firebase authentication.
- Implemented 25+ user stories in 4 sprints using Java Servlets and axios API, managed progress through monday.com.

[Sparkify – Music Streaming Analytics](#)

05/2022 - 07/2022

- Deployed an ETL pipeline on a Redshift Cluster to model user-activity data present in S3 buckets using PostgreSQL.
- Scaled up the system onto an EMR Hadoop Cluster following Star Schema and wrote Spark jobs to process 1M songs.

[Identifying Hate Speech in social media](#)

10/2021 - 11/2021

- Trained a LSTM model on 1.6M scraped tweets to identify and flag toxic tweets in real-time with a F-1 score of 90%.
- Generated 50K features using TF-IDF Vectorizer, performed EDA and used SMOTE for rectifying class imbalance.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C++, C

Web & Database: HTML, CSS, SASS, Bootstrap, Vue.js, ReactJS, Flask, MySQL, Postgres, MongoDB, Apache Cassandra

ML Frameworks: Scikit-learn, OpenCV, Keras, TensorFlow, PyTorch, NetworkX, Tweepy

Technologies: Git, Docker, Postman, Linux, Agile, Figma, Heroku, Jira, Firebase, Apache Spark, [AWS](#), [Tableau](#)

ACHIEVEMENTS

- Awarded Best Domain Hack at VTHacks X for visualization of carbon emissions with AI Bot and Tableau in 2022.
- Represented India at HPAIR (Harvard College Project for Asian and International Relations) Asia'19 and Harvard'20.
- Mentored 2K+ enrolled students as a Teaching Assistant for online course on Deep Learning offered by PadhAI in 2019.
- Won the ACM Compute'18 national competition for proposing novel ML-based techniques to aid cancer research.