Sagar Swami Rao Kulkarni

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EDUCATION

Univeristy of Colorado at Boulder, Boulder, CO, USA   May 2025
Masters of Science, **Computer Science**
- GPA: 4/4

CMR University, Bengaluru, KA, India   Aug 2020
Bachelors of Science, **Computer Science**
- Awards: Gold Medal, First Rank Award, CMR Jnanadhara Scholarship, CMR Merit Based Scholarship
- GPA: 9.41/10

EXPERIENCE

Software Engineer, Quinnox, Bengaluru, KA, India   Jan 2021 – Jul 2023
- Optimized REST APIs, reducing compute time by 50% through advanced caching mechanisms, enhancing API performance and reduced latency.
- Automated data processes from Excel, Amplitude, and MySQL to Neo4J, achieving a 30% reduction in data injection time.
- Created an automatic payment status tracker using AWS Lambda, Stripe, and Springboot, streamlining billing operations and improving payment tracking accuracy.
- Developed an object detection POC for warehouse monitoring, attaining 76% detection accuracy and earning the 2022 On-the-Spot Award.
- Improved search functionality in Home Healthcare Orders (HHO) with radial and multi-field search, and established a live sync service in Springboot, improving data search and synchronization.

NLP Software Intern, Senseforth AI, Bengaluru, KA, India   Mar 2020 – May 2020
- Constructed scalable document parsers for PDFs, PPTs, and Word documents using NLP techniques, extending the capabilities of the KnowledgeBot parser.
- Augmented document parsing with Lucene indexing, Bird's Eye Search, and word spaces calculations.
- Modified the open-source code of PDFBox to retrieve font information, indentations, and distances within PDF documents.

PROJECTS

Career Compass   Sept 2023 – Present
- Designed and implemented a job search management webapp with React, Java Spring, and AWS RDS. Applied OOAD patterns in Springboot REST architecture, optimizing deployment with AWS Lambda and CloudFront.

React UI Dropzone   May 2022 – June 2022
- Forked and refined material-ui-dropzone, adding features like previewText, dropzoneText, onSave, and onClose file return functions and props for both component types. Achieved 37 average weekly downloads on NPM.

Smartphone Like-Dislike Classification   Jan 2020 – Aug 2020
- Engineered MP Neuron and Perceptron models for predicting market acceptance of phones with 82% accuracy. Published findings in an IEEE paper.

SKILLS & ACTIVITIES

- **Technical Skills:** Java, Python, React.js, JavaScript, HTML, Flask, SpringBoot, MySQL, Neo4J, Redis, AWS, Docker, Git, Jupyter, PyTorch, Scikit-Learn, Postman, Tomcat
- **Certifications:** AWS Cloud Practitioner

ACHIEVEMENTS

- Received the 2022 On the Spot Award and the 2021 Pat on the Back Award for outstanding performance & contributions.
- Awarded the Gold Medal for securing first place throughout my Bachelors in Computer Science and Engineering.
- Won the Zonal Level title in the Azure Skynet Hackathon, organized in collaboration with IIT Hyderabad in 2018.

VOLUNTEERING EXPERIENCE

- **Voice of Stray Dogs:** Led initiatives to improve animal welfare, promoting responsible pet ownership.
- **Make A Difference:** Empowered underprivileged youth through education, contributing to their professional growth.