

# 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.
- 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**

Apr 2022 – June 2022

- Forked and enhanced the material-ui-dropzone library, adding features like previewText, dropzoneText, onSave, and onClose to improve file handling and user feedback for the developers.
- Achieved over 1,920 total downloads on [NPM](#), with an average of 37 weekly downloads.

**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, CodePath Certificate in TIP

## 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.
- **INGLU Climate Warriors:** Led environmental sustainability efforts through impactful initiatives.