

Sahasraditya Thyadi

Master of Science, Computer Science — Software Engineer —

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EDUCATION

University of Colorado, Boulder

Boulder, CO

Master of Science, Computer Science — GPA: 3.9

May 2026

Relevant Coursework: Cloud Computing, Design and Analysis of Algorithms, Foundations of Software Engineering

MS Ramaiah Institute of Technology

Bengaluru, India

Bachelor of Engineering, Electronics and Communication — GPA: 8.2

May 2022

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Cryptography, Network and Cyber Security

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, R, C++, Kotlin

Frameworks: React.js, Node.js, Express, Flask, FastAPI, Next.js, REST APIs, Microservices, Pytorch, Streamlit

Databases & Cloud: PostgreSQL, Redis (NoSQL), Google Cloud Platform (BigQuery, Cloud Run, Pub/Sub, Cloud Scheduler, Cloud SQL), Docker, Kubernetes, Amazon Web Services (Redshift, Lambda, EC2), Azure (DP-900 certified)

Tools: Git, GitHub Actions, Github CI, LangChain, HTML, CSS3, JUnit, Power BI, Tableau

PROFESSIONAL EXPERIENCE

Graduate Student Researcher | Python

Oct 2025 -

University of Colorado Boulder

Boulder, CO

- Fine tuned pre trained deep learning models in PyTorch to predict ionic conductivity in lithium and sodium mixtures for over 10000 mixtures, collaborating with a postdoctoral research team.
- Wrote modular Python snippets for dataset pre-processing, model training and evaluation on PyTorch.

Analyst | Python, R, GCP

Jun 2022 – Jul 2024

Merkle

Bengaluru, India

- Upgraded monthly processes using automation scripts which reduced processing time from 3 days to 4 hours for quick turnaround time.
- Designed full-stack system integrating Google BigQuery backend with Tableau frontend, enabling real-time data visualization of 15 analytical metrics in the retail industry.
- Leveraged the OpenAI API for AI-powered classification service, reducing processing time by 90% by eliminating manual work.

Trainee Intern | Python, ML

Sep 2021 – Oct 2021

Bharat Electronics Ltd.

Bengaluru, India

- Formulated a speech recognition system using Python and machine learning, achieving 90% accuracy across 11,000+ multilingual audio samples

PROJECTS

See My Race : Face Recognition in Races | Python, Flask, Postgres, HTML/CSS,

Dec 2025

- Constructed a race photo platform with 3 different roles which allows runners to authenticate, discover their photos, and contribute race albums.
- Developed automated face detection and bib number OCR pipelines using Pytorch with 85% accuracy and 5s processing time.
- Refined accuracy by 15% by using user feedback and confirmation flows to improve identity matching.
- Built backend services using Google Cloud Storage and PostgreSQL to manage races, photos, users.

Cine-Stellation: Movie Recommendation Platform | Python, Flask, React.js, MongoDB

May 2025

- Built full-stack recommendation system with Flask REST API backend and React frontend, implementing collaborative filtering for 10,000+ movies
- Engineered graph based interactive visualization using D3.js force-directed layouts with real-time filtering
- Created a semantic search using MPNet embeddings and KNN algorithm and also embedded auth for users and personalized movie recommendation by saving preferences on MongoDB.

News Recommendation System | Kotlin, CI/CD, Microservices, GCP

Mar 2025

- Developed and deployed a Kotlin-based microservices news recommendation system with user authentication, sign-up, and personalized content delivery based on 8 user preferences.
- Designed a cloud-native architecture utilizing Google Cloud Run, Cloud SQL, and Pub/Sub to ensure scalable and decouple communication with sub 100ms latency.
- Implemented CI/CD pipelines using Cloud Build and GitHub Actions, automating testing using JUnit 5 and deployment workflows