

YASHWANTH HIREHALLI SWAMY

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Linked In

Portfolio

Master of Science in Computer Science at the University of Colorado Boulder, set to **graduate in Spring 2024**. Four years of extensive experience as a **Senior Software Engineer**, specialized in full stack web development.

EDUCATION

UNIVERSITY OF COLORADO BOULDER

AUG 2022 – MAY 2024

Master of Science in Computer Science

GPA: 3.89/ 4.0

Course work: Big Data Architecture, Datacenter Scale Computing, Algorithms

UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING(UVCE)

AUG 2014 – JUN 2018

Bachelor of Engineering in Computer Science

GPA: 72.5/ 100

SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript

Web Development: React, Angular, Node.js, Spring boot, PostgreSQL, RabbitMQ, Elastic Search

Cloud Technology: Docker, Kubernetes, AWS

WORK EXPERIENCE

NASDAQ

JUN 2023 – AUG 2023

Software Engineer Intern

Denver, CO

- Collaborated in the development of a report configuration tool using **React and Spring Boot** which achieved 22% reduction in processing time for customers in reviewing configuration reports
- Devised and implemented a **proof of concept to extract configuration reports** from GitLab using Spring Cloud Config Server. This innovative approach resulted in a remarkable 15% reduction in wait time for all read write activities

SIEMENS

OCT 2021 – JUL 2022

Senior Software Engineer

Bengaluru, IND

- Architected and implemented **Kubernetes scheduler jobs** to replace traditional process-based schedulers, resulting in a significant 70% boost in the scalability of micro-services and overall user experience
- Orchestrated the seamless **migration of a micro-services application** from Siemens' cloud to AWS (EKS), resulting in accelerated release cycles and a 34% increase in application reliability
- Mentored and guided interns by providing comprehensive insights into the project's details and architecture, fostering a smooth onboarding process, and facilitating their understanding of the project.

SIEMENS

JAN 2019 – SEPT 2021

Software Engineer

Bengaluru, IND

- Collaborated with 2 members in creating **preconditioning algorithm** to enhance smart charging using bus schedule and power prices. This initiative yielded a remarkable 48% improvement in charging efficiency and 20% reduction in power bills
- Implemented advanced features leveraging **Angular** for the frontend and integrating **Node.js and Python** for the backend, resulting in the successful deployment of a web application on **AWS**. This application was specifically designed for monitoring IoT devices associated with electric vehicles, showcasing a comprehensive and efficient technological solution

SIEMENS

JUL 2018 – DEC 2018

Junior Software Engineer

Bengaluru, IND

- Refined legacy code with the help of new NUnit test cases and **design patterns** resulting in boosting test coverage by 16%.

PROJECTS

STUDY BUFF

Developed a **course recommendation platform for CU students**, leveraging a sophisticated model trained on a 10,000-course dataset. Its tailored suggestions using course syllabi and student feedback, optimizing data retrieval with **Elastic Search** integration.

BROADBAND MAPPING

Planned and implemented an ArcGIS dashboard to support the **Federal Communications Commission** in their evaluation of **nationwide cellular network coverage**. Additionally, spearheaded **cross-university training initiatives**, empowering undergraduate students to develop state-specific data dashboards for well-informed decision-making.

LEADERSHIP AND AWARDS

- **Vice Chair**, IEEE UVCE Student chapter.
- **Star Award** - Best developer of the quarter.
- Runners in **Werner Von Siemens Award for Depotfinity, the Best Siemens Global Project.**

AUG 2021 & APR 2022

APR 2020