

YASHWANTH HIREHALLI SWAMY

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Linked In

Portfolio

M.S. student at the University of Colorado Boulder with 4+ years of experience as a Senior Software Engineer at Siemens. I am now actively pursuing a full-time role in web application development, leveraging my academic and industry background to contribute to innovative projects in this field.

EDUCATION

- ♦ **UNIVERSITY OF COLORADO BOULDER** **AUG 2022 – MAY 2024**
Master of Science in Computer Science
GPA: 3.83/ 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

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
 - Implemented a **proof of concept** utilizing **Spring Cloud Config Server** to extract configuration reports from GitLab, showcasing potential enhancements in system efficiency
- ♦ **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**
 - 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**
- ♦ **SIEMENS** **JAN 2019 – SEPT 2021**
Software Engineer
Bengaluru, IND
 - Collaborated on the strategic implementation of **advanced algorithms** and **data structures** to optimize smart charging algorithms, resulting in a remarkable **48% improvement in charging efficiency** and user experience
 - Designed and implemented advanced features using **Angular** for the frontend and combined **Node.js and Python** for the backend, resulting in the successful deployment of a web application(depofinity) on **AWS** dedicated to monitoring **IoT devices for electric vehicles**
- ♦ **SIEMENS** **JUL 2018 – DEC 2018**
Junior Software Engineer
Bengaluru, IND
 - Enhanced **device compatibility** through the integration of Edit-Distance Algorithm, expanding the range of supported devices
 - Elevated legacy code quality by **boosting test coverage by 16%**, introducing new NUnit test cases and automation tests to expedite bug detection, while simultaneously optimizing code maintenance through the implementation of diverse **design patterns to modularize**

SKILLS

- ♦ **Programming Languages:** Python, Java, TypeScript, JavaScript
- ♦ **Web Development:** React, Angular, Node.js, Spring boot, PostgreSQL, RabbitMQ, Elastic Search
- ♦ **Cloud Technology:** Docker, Kubernetes, AWS, Terraform

PROJECTS

- ♦ **STUDY BUFF**
Developed a **course recommendation platform for CU students**, leveraging a sophisticated model trained on a 10,000-course dataset. It tailors' 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. **AUG 2021 & APR 2022**
- ♦ Runners in **Werner Von Siemens Award for Depofinity, the Best Siemens Global Project.** **APR 2020**