Sreetej Reddy Nagarimadugu

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EDUCATION

Masters of Computer Science   **Sep 2022 – Dec 2023**
University of California, Irvine
Bachelor of Technology in Computer Science Engineering   **Aug 2016 – Sep 2020**
Gokaraju Rangaraju Institute of Engineering and Technology

SKILLS

Programming Languages C, Java, Python, Javascript, Ruby   **Development Tools** Git, Docker, K8s
Frameworks Spring boot, Ruby on Rails, ReactJS, Flask   **Databases** Postgres, MySQL, MongoDB

WORK EXPERIENCE

Software Engineer II | Software Engineer I | ASE, ZeMoSo Labs, India   **Jun 2020 – Aug 2022**
• Migrated a Robotics cloud lab into microservices, making the application environment more scalable. And worked with a diverse set of frameworks, i.e., Spring boot, Flask, Ruby on Rails, and ReactJS, to enable this transition.
• Primary contributor in building an adapter service(REST API) that links an Electronic Lab Notebook with a cloud lab platform for scientists to model and push scientific experiments as executables.
• Devised a CI/CD infrastructure of integration testing framework(cypress) to evaluate compliance of the system with specific functional requirements. Maintained this infrastructure for two years.
• Contributed to a proprietary React UI SDK for all UI applications in Robotics Cloud Lab.
• Mentored 10+ interns, with a 100% conversion rate to full-time employees.
• Integrated a micro-frontend application into an existing UI application and created a caching framework leveraged across applications.

Software Engineering Intern, ZeMoSo Labs, India   **Jun 2019 – Jun 2020**
• Led development in an RFID-based access-control system incorporating ESP8266 MCU and created REST API services responsible for handling user and card information.
• Sole contributor of a microservice that is a part of an in-house coding assessment platform responsible for auditing code changes periodically.

Backend Developer Intern, Perfectice, India   **Mar 2019 – Apr 2019**
• Managed an AI-Based online educational platform using Flask with MongoDB, predominantly worked on API services that analyze reports and generate user artifacts.
• Automated tasks using python for cleaning up and organizing the infrastructure environment.

OPEN SOURCE CONTRIBUTIONS -

• **Material-UI** (A UI library for ReactJS)
  Added Gatsby support for Material-UI Modal to fix the scroll overflow and fixed the Appbar position issues.
• **Autoprotocol** (language for specifying experimental protocols for scientific research)
Introduced a new Compound datatype enabling experimental protocols to deal with chemical reactions. Integrated this new datatype into the existing workflow to run scientific experiments.

BLOCKCHAIN E-VOTING PLATFORM (PROJECT) -

• A secure self-managed decentralized e-voting platform that keeps track of votes across a peer-to-peer network of nodes run by consensus algorithms. Used WebSockets to implement the peer-to-peer network, Node js for the backend, and ExpressJS as a middleware for exposing APIs to interact with the blockchain.