HARSHA SIDDAGANGAIAH

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EDUCATION

M.S. Computer Science — **Sept 2021 - June 2023**
University of Oregon — Eugene, Oregon

B.E. Information Science — **Aug 2014 - July 2018**
Visvesvaraya Technological University — Bangalore, India

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java.
Database (NoSQL and SQL): MongoDB, PostgreSQL, OracleDB, MySQL, SQLite.
Frontend technologies: React.js, JavaScript, Bootstrap, jQuery, HTML5, CSS3, MicroFrontend.
Backend technologies: Node.js, Express.js, Django, JSON, Microservices, RESTful API.
DevOps & Cloud: Jenkins, Docker, Kubernetes, CI/CD pipelines, Rancher, Splunk, AWS.
Tools: VSCode, PyCharm, Git & Stash, Jira, Figma, Postman, MongoDB Compass.
Software Development Methodology: Agile (Scrum).

EXPERIENCE

Verizon — **Sept 2023 - Present**
Software Engineer — Irving, Texas

- Spearheaded the comprehensive development of the **Thingspace Sense Portal, an advanced IoT application using React.js**, equipping Verizon clients with powerful tools to address business challenges. Achieved a notable **34% increase in client operational efficiency** by optimizing the management of IoT gateways and sensors.
- Engineered middleware solutions including **Session, Event, and Device Manager to orchestrate seamless operations via APIs**, resulting in a **16% reduction in processing time**. Leveraged **Node.js and Express.js to construct these pivotal components**, ensuring efficient communication and integration across the application ecosystem.
- Created an **Angular shell application using micro front-end architecture** to encapsulate the React components of the Thingspace portal, enabling seamless communication with Verizon's pre-existing Angular login portal. This **innovative integration** facilitated cohesive user experiences across platforms and **slashing user authentication time by 25%**.
- Crafted a intuitive **Admin Console empowering the provider team** with comprehensive CRUD operations **for sensor metadata management**. This initiative optimized administrative tasks, **boosting productivity by 3x** and optimizing overall metadata management efficiency.
- Pioneered an **innovative recommendation system within an IoT configurator application**, revolutionizing the process of selecting gateways and sensors based on users' specific use-cases. This **groundbreaking solution provided valuable price suggestions**, resulting in a **remarkable 52% reduction in unnecessary expenditures**.
- Implemented **Python scripts to efficiently manage extensive amounts of use-case and sensor data**. The processed data seamlessly **transitioned into MongoDB**, enhancing **73% reduction in data processing time**.
- Efficiently **deployed the IoT configurator and Thingspace application on AWS**, aided by **Jenkins and Kubernetes, reduced deployment time by 27%**, enhancing scalability and ensuring rapid delivery of updates.

Atos Syntel — **Aug 2018 - Aug 2021**
Associate Engineer — Bangalore, India

- Architected and implemented **highly efficient Manufacturing Execution System** for an automobile semiconductor manufacturing client, optimizing manufacturing processes and resulting in an **impressive 18% increase in production efficiency**, leading to significant cost savings and improved productivity.
- Developed a responsive **web application using React.js** to **optimize Material Management and Real-time Analytics**, resulting in a **20% increase in material utilization** efficiency, and a **15% improvement in decision-making based on real-time analytics**.
- Enhanced scalability by implementing **microservices in Django**, enabling seamless handling of increasing data volumes and user loads, **leading to a 300% improvement in system responsiveness**.
- Optimized data flow through **RESTful APIs**, ensuring effortless **communication between the DBManager and the PostgreSQL database**, **reducing processing time by 40%**, enabling efficient real-time information exchange.
- Streamlined the software development lifecycle by **productionizing CI/CD pipelines using Jenkins**. This **reduced the software release cycle by 50%**, allowing for the delivery of high-quality software products frequently.