HARSH SIDDHAPURA

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PROFESSIONAL EXPERIENCE

Software Engineer August 2023 - Present
ARIZONA STATE UNIVERSITY Phoenix, USA

- Delivering Empowering the Pacific software, Fiji's clean energy, supporting the nation's 100% renewable energy goal by 2030.
- Spearheading processes for large datasets, facilitating **solar mini-grid full-stack** software for **75+** remote communities on **Fiji Island**.
- Collaborating with **cross-functional** teams in **backend** and **frontend** development to build cutting-edge technology models, driving a **\$40 Million** investment in **renewable** energy **infrastructure** applying Python, NodeJS, ReactJS, Java, Docker, AWS, SQL, and REST API.

Senior Software Engineer

December 2022 - August 2023

- ENTITLED SOLUTIONS
 Directed system optimization, slashing loan processing time by 40% through enhancements of numerous disbursement workflows.
- Engineered AWS serverless data pipelines, boosting synchronization efficiency and leveraging data to increase engagement by 25%.
- Elevated system performance and introduced a microservice architecture, achieving a 20% increment in overall platform efficiency.
- Deployed scalable apps using AWS, NodeJS, Python, ReactJS, MySQL, & MongoDB, enriching UX and decreasing load times by 15%.

Software Development Engineer

January 2021 - December 2022

Pune, IN

INDEXNINE TECHNOLOGIES

- Built <u>Quick Heal</u> security, allowing **analysts** to monitor **25+** alerts simultaneously, perform smart hunting, and provide **protection**.
- Digitized <u>Simply Coach</u> platform, minimizing administrative tasks by **20%** and empowering coaches to focus on strategy & results.
- Streamlined development speed by 25%, cutting feature development time by 17% through diverse optimized SDLC methods in both backend and frontend development, utilizing tech stack including NodeJS, ReactJS, Java, Spring Boot, PostgreSQL, and AWS.

Research and Development Scholar

January 2020 - December 2020

SAMSUNG & THE UNIVERSITY OF BRITISH COLUMBIA

Vancouver, CA

- Analyzed architectural components of monolithic applications, lowering execution time to 67% through optimal VM type selection.
- Refactored to microservice architecture, notably improving performance by 15% and turning down architectural decay by 14%.
- Designed a **cost-optimization algorithm** shrinking **AWS** costs by **27%**, co-authored an **IEEE** paper, <u>Kuber: Cost-Efficient Microservice</u> <u>Deployment Planner</u>; **full-stack** development employing Python, JavaScript, Java, Spring Boot, Docker, Kubernetes, SQL, and AWS.

Software Development Engineer

August 2019 - January 2020

Pune, IN

KPIT TECHNOLOGIES

- Created a comprehensive **Common Vulnerability Scoring System**, bolstering security measures and amplifying protection by **35%**.
- Devised robust code to assess system security, detect threat levels of malware attacks, and mitigate risks by 15% across endpoints.
- Improved overall security framework **efficiency** by **32**%, diminished potential threats by **27**% through architectural **optimization** and used **frontend** & **backend** technologies NodeJS, Python, ReactJS, Java, Docker, SQL, Git, and AWS, reinforcing system **resilience**.

Software Development Intern

July 2018 - December 2018

INDIAN INSTITUTE OF TECHNOLOGY - BOMBAY (IIT-B)

Mumbai, IN

- Intensified efficiency of Smart Foundry Lab, accelerating data transfer rate to the central server by 30% using CI/CD and DevOps.
- Integrated 25+ sensors for temperature & humidity measurement, enabling data visualization and dropping response time by 14%.
- Developed 10+ interactive Machine Learning based dashboards, magnifying critical metrics, performance, and decision-making.
- Architected 25+ REST APIs, incorporating NodeJS, PHP, Python, React JS, Firebase, Docker, AWS, Machine Learning, and Tableau.

PROJECTS

SMART SYSTEM TO REDUCE FOOD WASTAGE | Python, Image Processing, Artificial Intelligence, Machine Learning, AWS, React JS, Git

- Conducted research for food waste **reduction** and devised a system to calculate leftover food **accurately**, depleting waste by **37%**.
- Constructed a smart system with microcontrollers to quantify leftover food through image processing, achieving 81% accuracy.
- Implemented technical solutions at three university dining to incentivize sustainable food practices and to abate food waste.

KINECTO-THERAPY | React JS, PostgreSQL, Python, Artificial Intelligence, Machine Learning, Docker, Kubernetes, AWS, Flutter, Git, CSS

- Led a fully-funded startup project sponsored by NewGen IEDC India, aimed at revolutionizing healthcare with a budget of \$5,000.
- Crafted an influential Al-powered game to alleviate body pain and disabilities, offering therapeutic benefits, tested on 250+ users.
- Innovated Al-driven solutions to enhance users' well-being satisfaction by 25% through interactive and therapeutic interventions.

EDUCATION

Master of Science - Computer Science & Information Technology ARIZONA STATE UNIVERSITY

December 2024 Phoenix, USA

SKILLS

Languages:Python, JavaScript, TypeScript, Java, PHP, C Language, HTML, CSS, Data Structures, Algorithms, OOPFrameworks:Node JS, Next JS, Spring Boot, Flask, Django, React JS, Angular 12, Jasmine, Flutter, REST API, AJAXDatabase & Cloud:MySQL, PostgreSQL, SQL, MongoDB, Firebase, Kafka, Docker, Kubernetes, AWS, Azure, CI/CD, JSONTools & Platforms:Git, Jenkins, Matlab, Tableau, Hadoop, Spark, Artificial Intelligence, Machine Learning, Terraform, NLP

AWARDS & CERTIFICATIONS

- AWS Certified Solutions Architect Associate (SAA-C03)
- Arizona State University Engineering Graduate Fellowship, Arizona State University Chuck & Judy Backus Scholarship