

Sakthi Nathan

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Skills

- Java | JavaScript | TypeScript | C++ | MySQL | Node | Express | React | Redux | Git | Nest Js | Prisma | Redis | Python | Django
- Aws | Azure | Cloud Computing | CI/CD | DSA | Agile | Unit Testing | Docker | Kubernetes
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | English, Tamil – *All professional proficiency or above*

Professional Experience

Software Engineer

Zoho

Chennai, TN, India

05/2022 - Present

- Developed both frontend and backend for alarms module to monitor devices which are present in the network for OpManager product.
- Developed front end for Compliance Standard module for Firewall Analyzer product.
- Developed a user-friendly Docker and Flask-based tool to simplify test server installation process, eliminating the need for complex physical machine setups.
- Created a Python, JavaScript, React, and Flask-based tool for effortless retrieval, manipulation, and management of color, font, and icon data, streamlining the process of adding and modifying visual elements.

Software Engineer Trainee

Zoho

Chennai, TN, India

09/2021 - 05/2022

- Built a command-line interface (CLI) tool using Python and the Typer library to generate architecture design patterns and boilerplate code for iOS development, enhancing productivity and streamlining the iOS app development process.
- Developed a Python-based tool for ensuring seamless synchronization of build and version numbers throughout the codebase, eliminating potential issues during the generation of builds for the Play Store, streamlining the release process.
- Acquired expertise in architecture patterns, full-stack software development, database design, and mobile app development using Swift, React, Java, Servlet, JavaScript, and MySQL, delivering comprehensive solutions across various tech stacks.

Education

Bachelor of Engineering

Anna University

Chennai, TN, India

04/2018 - 5/2022

- Major in Computer Science

In-depth study of algorithms, data structures, and programming languages, coupled with problem-solving skills, equips me to develop efficient and robust software solutions and Extensive coursework in computer architecture, operating systems, and networks provides a solid foundation for building scalable and secure computing systems.

Projects

- **MicroPy** : A microservices architecture implemented with Python, RabbitMQ, Docker, and Kubernetes to build an efficient MP4 to MP3 converter, enabling seamless audio file format conversion. It demonstrates proficiency in distributed systems, containerization, message queuing, and orchestration technologies
- **Parallel Search** : A master-slave architecture, where the master node receives search queries and distributes them among multiple slave nodes. The slave nodes concurrently search for the specified word across numerous files, enabling faster search results. This showcases skills in designing scalable and efficient distributed systems, implementing parallel processing algorithms,
- **Chaos** : Developed a computer vision software utilizing Python and OpenCV, enabling disabled individuals to operate Windows OS effortlessly. Implemented finger gesture and eyeball tracking for cursor control, along with a voice assistant that reads aloud screen content for visually impaired users, enhancing accessibility and usability.
- **HBF** : Developed a real-time ambulance dispatch system that enables drivers to locate the nearest available hospitals with beds and provide critical patient information, facilitating timely and efficient emergency medical response. Demonstrated expertise in geolocation, data communication, and healthcare systems integration, ensuring optimal patient care and resource allocation.

Others

- **Certification** on Server-Side Development with Node JS, Express and MongoDB (2/2022)
- **Certification** on RHCSA – Red hat Certified System Administrator (10/2019)
- **Certification** on Advance Java, JSP and Servlet certification (7/2018)
- **Award** - Received best student award from ISTE (3/2022)
- **Hackathon** - Participated and won second prize in national hackathon conducted by sairam engineering college (8/2019)