

Sai Shiva Hari Prasad Embar

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PROFESSIONAL SUMMARY:

- Software Engineer with 5+ years of experience specializing in React, Angular, Node.js, and Java Spring.
- Proficient in TypeScript, JavaScript, Java, Python, C# ASP.NET, and SQL.
- Expert in building scalable frontend applications using React and Angular.
- Skilled in developing backend services with Node.js/Express and Java Spring Framework.
- Experienced in cloud technologies: AWS (EC2, S3, CloudWatch, Lambda) and Azure (DevOps, SQL Database).
- Proficient in containerization using Docker and Docker Compose, with fundamental knowledge of Kubernetes concepts and container orchestration.
- Advanced state management implementation using RxJS, Redux in React applications.
- Experienced in database design, migration, and management (MySQL, Azure SQL).
- Skilled in RESTful API design and implementation.
- Proficient in test-driven development (TDD) and unit testing.

Technical Skills

Languages: Java, Python, JavaScript, C#, C++, SQL, HTML/CSS, Typescript, GraphQL
Frameworks: React, Nextjs, Vue, Angular, Expressjs, Nodejs, Spring Framework, Fast API, Flask.
Cloud Skills: Amazon Web Services, Microsoft Azure, Google Cloud
Developer Tools & Automation: Microsoft 365 Power Apps, Git, Docker, TravisCI, PostMan
Libraries: Pandas, NumPy, Matplotlib, PyQt5, OpenCV

Certifications

AWS Certified Solutions Architect - Associate
Microsoft Certified: Azure Fundamentals - AZ 900

Experience

Software Engineer <i>Infinite Computer Solutions (Client: Iron Mountain)</i>	Feb 2024 – Present St Louis, USA
<ul style="list-style-type: none">• Played a key role in the development of the <u>Insight DXP product</u>, a Generative AI Saas Product.• Creating UI components for micro frontend architectures using React, Nodejs and Java Spring.• Modernized RxJS-based UI component state management by migrating to React Query and React Hook Form, reducing boilerplate code by 40% and accelerating feature delivery for the DXP 2.0 release• Designing and developing RESTful APIs using Express with Node.js and MongoDB for robust data management and scalability.• Assisted in implementing OCR functionality using NVIDIA's TAO Toolkit to extract text from simple document formats like PDFs and scanned images.• Utilized Mongoose ODM to streamline database operations, enforce data schemas, and optimize for anticipated high-volume usage.	
Full Stack Developer <i>Zensoft IT Solutions, Inc. (Client: EverestRe)</i>	Sept 2023 – Jan 2024 Austin, USA
<ul style="list-style-type: none">• Designed and implemented RESTful APIs using Java and Spring Boot, facilitating robust communication between frontend and backend services.• Developed and implemented responsive UI components for micro frontend architectures using React, ensuring seamless integration and optimal user experience across various devices and screen sizes.	
Instructional Assistant - Developer <i>University of Houston</i>	Oct 2021 – June 2023 Houston, USA

- Improved user experience of C# and Nodejs based websites using React and Angular.
- Migrated on-premises MySQL database to Azure SQL database.
- Developed a Python GUI [tool](#) that automates the extraction of TA timesheet logs and generates key metrics, reducing a 40-hour manual process in MS Excel to just minutes.
- Implemented [Power Automate workflow](#) using Cognito forms, Power Apps, Power Automate workflow and SharePoint, reducing errors by 50%, processing time by 60%, serving 1000+ students and professors.
- Implemented Power Automate workflows in conjunction with Power Apps, optimizing various administrative tasks and improving overall departmental efficiency.

Assistant System Engineer - Developer

Oct 2019 – Jan 2021

Tata Consultancy Services

Hyderabad, India

- Utilized Java Spring for creating backend API solutions and React.js, Angular for dynamic front-end interfaces, worked on brands like Pedigree, Orbit, Snickers & other e-commerce websites.
- Successfully migrated 112 digital marketing websites' codebases into a centralized Azure DevOps environment, streamlining version control, CI/CD pipelines, and collaboration across development teams.
- Collaborated with 70+ Brand Managers from the EU region to analyze campaign requirements, provide accurate cost estimates, and deliver realistic completion timelines.

Education

University of Houston

Master of Science in Computer Science

GPA 3.46

Houston, USA

Aug. 2021 – May 2023

Sreenidhi Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering

GPA 3.6

Hyderabad, India

Aug. 2015 – May 2018

PROJECTS

Job Search Tool for International Students [React, Javascript, Java, MySQL, Google Auth, EC2]

- Built a full-stack platform (React, Java, MySQL) to assist international students with US job searches.
- Attracted 100+ active users within the first week for website and chrome extension.
- Implemented Google Auth for seamless sign-ups and added a job watchlist feature for user convenience.
- Deployed on AWS EC2 with NGINX and Docker.
- Created chrome extension to help students view the companies on LinkedIn that accept EAD cards
[Extensionurl](#) [Projecturl](#)

Serverless Image Resizer [React, Python, AWS Lambda, API Gateway, Amazon S3]

- Developed AWS-based service (Lambda, API Gateway, S3) for on-demand image resizing.
- Implemented chunked uploads to bypass Lambda's 6MB limit and generated presigned URLs for private sharing. [Projecturl](#)

Honors & awards

On the Spot Award by Tata Consultancy Services
Udacity Technology Scholarship powered by Bertelsmann

External Profiles

Blog: <https://saishivahariprasad.com/>

GitHub: <https://github.com/esshariprasad>

Credly: <https://www.credly.com/users/sai-shiva-hari-prasad-embar/>