

Hariharan Sathiyamoorthy

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in full-stack development, architecting and delivering scalable web applications and microservices. Proficient in JavaScript, React, Node.js, and TypeScript, with a strong understanding of event-driven architecture and cloud computing principles, further enhanced by an MSc in Cloud Computing. Proven ability in optimizing application performance and driving significant customer acquisition

WORK EXPERIENCE

Software Engineer, Cholamandalam Investment and Finance

Apr 2022 – Sep 2023

- Led full-stack development, including React frontend architecture, for an enterprise D2C web and mobile app, contributing to 500K+ customer acquisitions via a cross-browser compatible UI
- Optimized application performance and stability, achieving a 30% improvement in load times by mitigating cold start issues, implementing strategic Webpack configuration, and utilizing lazy loading techniques.
- Created reusable, responsive, and cross-browser compatible React.js components, widely adopted throughout the company, resulting in a 45% increase in developer productivity.
- Collaborated within an Agile (Scrum) framework with cross-functional teams, participating in sprint planning, daily stand-ups, and retrospectives to ensure timely delivery of features.

Software Developer, Intromagic

Jan 2022 – Apr 2022

- Designed and implemented a scalable RESTful API using Node.js and Express.js for distributed video processing, achieving a 25% improvement in processing throughput for large video files.
- Developed integrative solutions by integrating several third-party APIs (Zoho, Freshworks, & Greenhouse) using Node.js, instrumental in enhancing product functionality and user experience and directly supporting a 45% growth in the customer base.
- Integrated Morphcast SDK for real-time video analysis, which resulted in a 35% increase in processing applications.

Software Developer, Zero to Miles

Jan 2021 – Dec 2021

- Architected and implemented an e-commerce website for a gadget store using React.js and Node.js with a MongoDB backend, delivering an integrative solution that resulted in a 70% increase in online orders.
- Created a tour booking website for a travel agency using JavaScript, HTML, CSS and a SQL database, resulting in a 55% increase in global reach.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, HTML, CSS, Node.js, Python

Databases: MongoDB, SQL

Frameworks/Libraries: React.js, Express.js

Cloud Platforms: AWS, GCP

Tools/Concepts: Git, Docker, CI/CD, DevOps, Agile (Scrum), RESTful APIs, Microservices, Event-Driven Architecture

EDUCATION

Master of Science, Cloud Computing, National College of Ireland

Jan 2024 – Feb 2025

- Relevant Coursework: Cloud Platform Programming, Scalable Cloud Programming, Cloud DevOps

Bachelor of Technology, SASTRA UNIVERSITY

Apr 2016 – Sep 2020

- Relevant Coursework: Programming in C++, Algorithms & data structures, Web application development.

PROJECTS

Mitigating Cold Start in Serverless Computing (github.com/SmartFaaS)

Aug 2024 – Jan 2025

- Engineered a Node.js framework for a distributed serverless environment, utilizing AI/ML to optimize caching strategies and predict invocation times, significantly enhancing system efficiency and resilience for highly available services
- Leveraged Docker to containerize services with preloaded libraries for streamlined deployment in Linux environments, demonstrating proficiency in virtualized infrastructure management on IaaS/PaaS platforms similar to AWS EKS..
- Achieved an 83% reduction in latency (200 ms vs. 1200 ms) compared to openWhisk and decreased cold start frequency by 63%, while maintaining 30% resource utilization.

Direct-to-Customer (D2C) - Personal Loan App

Jul 2022 – Aug 2023

- Drove continuous improvement by architecting and implementing a robust frontend system using React, Redux, HTML, and CSS, achieving a 65% performance increase over legacy systems through adherence to modern software architectures and coding standards..
- Architected and implemented an asynchronous, distributed messaging workflow using Apache Kafka and WebSockets for real-time bi-directional communication, enhancing data consistency for frontend displays and improving workflows through high throughput.
- Converted the web app into an Android application using Capacitor.js (leveraging web technologies like HTML, CSS, JavaScript), achieving over 500k downloads on the Playstore.
- Delivered software solutions leveraging relational databases within a multidisciplinary agile team, utilizing Git for version control, participating in architectural code reviews, and focusing on continuous improvement to meet product requirements.

CERTIFICATIONS

Professional Cloud Developer, Google Cloud Platform (GCP) ([View Badge](#))

Feb 2025

AWARDS & ACCOLADES

Promoted to Assistant Manager IT in recognition of successful Direct-to-Customer application release and significant contributions to customer acquisition.

Cholamandalam Investment and Finance