

Hariharan Sathiyamoorthy

Software Engineer - Fullstack



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SUMMARY

- Software Engineer with 3+ years of experience in full-stack development, specializing in building scalable web applications and microservices. Proficient in JavaScript, Python, React.js, Node.js, and MongoDB, with a strong understanding of cloud technologies, DevOps practices, and a strong background in data structures and algorithms.
- Master's in Cloud Computing from National College of Ireland, with expertise in cloud architecture, DevOps, and scalable cloud programming. Certified Professional Cloud Developer from Google Cloud Platform.
- Proven track record of delivering high-quality applications, optimizing performance, and enhancing user experience. Strong problem-solving skills, with a focus on innovation and continuous learning.

TECHNICAL SKILLS

- **Programming Languages::** JavaScript, Python
- **Frameworks::** React.js, Django, Express.js, Bootstrap
- **Database Technologies::** MongoDB, MySQL
- **Cloud Technologies::** GCP, AWS
- **DevOps & CI/CD::** Cloud Build, GKE, Cloud Run, Cloud Run Functions

PROFESSIONAL EXPERIENCE

- **Software Engineer - Fullstack** Chennai, India
Cholamandalam Investment and Finance Apr 2022 - Nov 2023
 - **Product development:** Created several front-end apps using React.js and Redux and worked with the UI team to create and build a flexible user interface that made the experience more enjoyable for everyone. Built scalable microservices using Node.js on the backend, ensuring robust and efficient processing for a growing user base. Engineered database designs in MongoDB that are resilient and highly available, which helped improve system speed, dependability, and data security.
 - **Performance Optimization:** Optimized application performance through responsive design and integrated Apache Kafka for efficient messaging and data transfer, resulting in scalability and reliability.
 - **Deployment & DevOps:** Deployed and managed the application on AWS using Docker and Kubernetes, and implemented a CI/CD pipeline with automated testing, including unit, integration, and end-to-end test cases.
 - **Customer Acquisition & Revenue Growth:** Contributed significantly to customer acquisition, retention, and revenue growth by delivering a high-quality, user-centric mobile application.
- **Backend Developer** Bangalore, India
Intromagic Jan 2022 - Apr 2022
 - **API Development & Backend Optimization:** Worked as a Backend Developer, integrating and leveraging Google Drive API to build scalable and efficient backend systems. Designed and implemented RESTful APIs to ensure seamless file storage, retrieval, and management, while optimizing performance to handle high traffic loads.
 - **AI Model for Video Analysis:** Designed and developed an AI model for video analysis, enabling advanced data extraction and insights from video content. Utilized the MorphCast SDK and computer vision techniques to process and analyze video data in real-time, delivering actionable insights and enhancing user engagement for business applications
- **Software Developer** Chennai, India
Freelance Mar 2021 - Dec. 2021
 - **Full-Stack Web Development:** Created several full-stack web applications, leveraging modern technologies to deliver end-to-end solutions. Demonstrated strong organizational skills, developed effective problem-solving methods, and performed in-depth analysis of complex data to drive decision-making and optimize application performance.

EDUCATION

- **Master of Science in Cloud Computing 2:1** Dublin, Ireland
National College of Ireland *Jan. 2024 – Jan. 2025*
 - **Cloud Architecture:** Distributed systems design, multi-cloud solutions, serverless architectures
 - **Cloud DevOpsSec:** CI/CD pipelines, security automation, infrastructure as code
 - **Cloud Platform Programming:** AWS, Azure, GCP service integration and development
 - **Scalable Cloud Programming:** Microservices architecture, container orchestration, high availability
 - **Fog and Edge Computing:** Edge device management, IoT integration, distributed computing
- **Bachelor of Technology in Bio informatics** Thanjavur, India
SASTRA University *Mar. 2016 – Sep. 2020*

PROJECTS

- **Masters Dissertation Project - Mitigating Cold Start in Serverless Computing** [View Project]
National College of Ireland *Sep. 2024 - Jan. 2025*
 - **Framework Creation:** Created a framework in Node.js incorporating a caching algorithm and a time invocation prediction model.
 - **Containerization:** Utilized Docker to build containers by preloading required libraries, streamlining deployment.
 - **Monitoring & Testing:** Implemented comprehensive JMeter test scripts with detailed logging for in-depth analysis.
 - **Results:** 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** Chennai, India
Cholamandalam Investment and Finance *Sep. 2022 - Nov. 2023*
 - **Frontend Lead:** Created robust frontend architecture with state management using React.js and Redux.
 - **Event Driven Workflow:** Developed an asynchronous messaging workflow using Apache Kafka for message queuing and WebSockets for real-time bi-directional communication.
 - **Android App Conversion:** Converted the web app into an Android application using Capacitor.js, achieving over 500k downloads on the Playstore.
 - **Agile Workflow Coordination:** Coordinated agile workflows across development, testing, deployment, and monitoring.
 - **Third-Party Integration:** Integrated several third-party APIs and SDKs.

CERTIFICATIONS

- **Professional Cloud Developer** [View Badge]
Google Cloud Platform *Feb 2025*
 - **Certified Skills:** Application Security, CI/CD, Cloud API, Cloud-Native Applications, GKE, Cloud storage

ACCOMPLISHMENTS

- **Master's Dissertation Project:** Achieved first class in the master's dissertation project by mitigating cold start issues in serverless computing with SmartFaaS.
- **D2C Personal Loan App:** Secured over 500k downloads on Playstore by transforming the web app into a Progressive Web App and enhancing user engagement.