

HEMANTH SARAGADAM

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Education

Northeastern University

Master of Science in Computer Science

Sep. 2022 – May 2024

Boston, Massachusetts

Experience

Labs196 Innovations LLC (RealProton)

September 2024 – Present

Senior Software Engineer

Sugar Land, Texas

- Led full-stack ownership including requirement gathering, designing, implementing, and deploying scalable features across web applications, ensuring cross-platform compatibility, and collaborating with stakeholders to meet project milestones effectively.
- Designed and maintained complex data storage solutions using a combination of relational (MySQL) and non-relational databases, optimizing data processing efficiency, enhancing data integrity, and ensuring high availability for critical applications.
- Built powerful and intuitive client apps using Next.js, enhancing user interaction and accessibility, integrated a consistent design language for better UX/UI, and implemented responsive features to ensure a seamless experience across different devices and screen sizes.
- Led technical design discussions with stakeholders, focusing on reliability and scalability to support platform growth and user demands.
- Developed and optimized backend services using Golang, including data processing pipelines and server-side logic, enhancing platform efficiency, reliability, and scalability.

Northeastern University

January 2023 – May 2024

Full Stack Developer (Part-time)

Boston, Massachusetts

- Engineered an Assignment Management System with Node.js, implementing RESTful APIs for managing submissions, utilized Sequelize ORM for secure data storage, and enforced role-based access control to enhance security and streamline data operations.
- Utilized AWS SDK for SNS alerts, Pulumi for Infrastructure as Code, and AWS Lambda for automated submission processing, integrating GCP and Mailgun for seamless email notifications and improving overall deployment efficiency.
- Enhanced application reliability by integrating Winston for logging and StatsD for capturing metrics, enabling proactive monitoring, troubleshooting, and improving system observability and issue resolution time.
- Collaborated with UX/UI designers to enhance user experience, following user-centered design principles to improve overall usability.

KYC Hub

January 2022 – August 2022

Software Engineer

Remote

- Developed responsive user interfaces for compliance tools using Angular, streamlining workflows for identity verification, fraud detection, and risk assessments, while ensuring a consistent user experience.
- Created scalable RESTful APIs with Spring Boot to integrate multiple global data sources, managing complex data storage solutions (SQL and NoSQL) to ensure enhanced data availability, integrity, and performance.
- Optimized backend services and Angular components to reduce data fetching latency by 30%, significantly improving overall application performance, scalability, responsiveness, and user experience.
- Worked on front-end and backend integration, leveraging REST APIs for efficient data exchange and ensuring data integrity.
- Participated in designing scalable software systems to support increased platform load while maintaining performance.

DocsTime

January 2020 – December 2021

Full Stack Engineer

Remote

- Converted an Angular-based website into a scalable Progressive Web Application (PWA) with offline support, push notifications, enhanced caching mechanisms, and faster load times for healthcare providers and patients.
- Built a CI/CD pipeline using Jenkins, reducing release times by 40%, improving deployment efficiency, automating testing workflows, and ensuring seamless integration of new features across multiple environments.
- Leveraged Redis for caching and AWS Lambda-based serverless functions for real-time referral analytics, enhancing the user experience, reducing data processing times, improving system responsiveness, and supporting high-volume traffic with minimal latency.

Projects

Geo-Anonymous Chat App | iOS, Swift, Firebase, CoreLocation, UIKit

October 2024

- Developed an iOS application allowing anonymous users within a specific geographic radius to chat in real time, leveraging CoreLocation for accurate location-based communication. Implemented secure messaging protocols, integrated push notifications for message alerts, and optimized the user interface to provide a seamless and intuitive chat experience.
- Implemented secure, anonymous user authentication and chat management using Firebase, enabling real-time data synchronization. Integrated push notifications for new messages, enhancing user engagement and retention.
- Designed an intuitive and visually appealing user interface using UIKit, focusing on smooth interactions and accessibility.

Technical Skills

Languages: Swift, Java, C#, Objective-C, GO, Python, Rust, JavaScript, TypeScript, C++, Bash

Web Technologies: Angular, React, Vue, Spring Boot, Django, Next.js, NodeJS, Express, FastAPI, ASP.NET

iOS Development: Swift, UIKit, CoreData, CoreLocation, Firebase

Databases: SQL, PostgreSQL, MySQL, Redis, AWS RDS, MongoDB, Snowflake, DynamoDB, Neo4j

Cloud & DevOps: AWS, GCP, Kubernetes, Docker, Jenkins, Azure, Terraform, Ansible, Pulumi, AWS Lambda, AWS SNS, AWS S3

Visualization Tools: Three.js, SVG, D3.js, Matplotlib, Plotly

Testing: JUnit, Jest, Jasmine, Cypress, Mockito, Selenium, Manual Testing, Automated Testing, TDD, StatsD, Winston

APIs and Protocols: GraphQL, SOAP, REST APIs, OpenAPI, gRPC, Swagger, WebRTC

Other Tools & Technologies: Kafka, Jira, GitHub, Nginx, VSCode, Azure AKS, Metamask, Cron, WebSockets