Samuel Gamage

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Software engineer highly efficient in all areas of the stack with 4+ years' experience working in professional development teams to produce software utilizing a wide range of technologies, programming languages, and agile methods that resulted in high-quality mobile applications and web user experiences.

PROFESSIONAL EXPERIENCE

Lead Full Stack Developer   Jun 2021 - Present
Data Fusion Specialists, Rome, GA

- Led the design and development of Coeus, a SaaS offering that allows customers to train custom AI models utilizing IBM Watson Assistant that power complex virtual assistants for different use cases.
- Led the design and implementation of the Coeus dashboard utilizing React.js and TypeScript which integrated with Stripe, authentication systems and RESTful APIs allowing for a streamlined UX.
- Led the back-end development of the Coeus API utilizing an event-based architecture across all microservices with Apache Kafka which allowed us to scale and maximize data quality, scope, operability, and flexibility.
- Deployed 12+ microservices to staging and production environments on AWS EKS using Terraform, configured monitoring for production, and setup automated CI/CD using GitHub Actions and FluxCD.
- Worked closely with our partner IBM to help grow their Watson Assistant product offering to a market of millions of small businesses that currently do not utilize an AI chat solution for customer service.
- Optimized the creation of Coeus demos by creating an application that can automatically train and provision resources to create a custom demo from a small set of data, reducing turnaround time by up to 30%.

Frontend Developer   Jun 2019 - Jun 2021
Data Fusion Specialists, Rome, GA

- Designed and implemented the Coeus web chat widget utilizing JavaScript, TypeScript, Tailwind CSS, and React.js that can be easily embedded onto a customer's website.
- Wrote 50+ unit and integration tests using Jest to verify the functionality and accessibility of the UI/UX and connectivity to backend systems.
- Designed and developed a reusable, well-tested React UI component library and design system with Figma and Storybook.js for visual testing and documentation.
- Rebuilt the company website using a static site generator with content sourced via GraphQL from a CMS, resulting in a more manageable, performant site, and increasing the number of monthly visitors by 50%.

Frontend Developer   October 2018 – June 2019
Embraer and Florida Tech, Melbourne, FL

- Worked with a team of designers and engineers to create a suite of dashboard components in React for an aircraft assembly line management application.
- Modified existing software code to correct for errors and reduce bundle size resulting in a 30% increase in runtime efficiency.

EDUCATION

Bachelor of Science (B.S.) - Computer Science   May 2022
Georgia Institute of Technology, Atlanta, GA

Courses: Data Structures and Algorithms, Natural Language Processing, Machine Learning, Computer Architecture, Probability and Statistics

SKILLS

Frontend: HTML/CSS, JavaScript, TypeScript, React.js, Next.js, React Native, Tailwind CSS
Backend: Node.js, Python, Java, SpringBoot, C++, C#, Kubernetes, Docker, Linux, Kafka, MongoDB, SQL
Tools: AWS, Azure, Github, Git version control, Unit testing, Integration testing, DevOps, CI/CD, Terraform
Machine Learning: Tensorflow, Scikit-learn, NumPy, Pandas, SciPy, Keras, PyTorch

PROJECTS

Ava Chatbot   Spring 2023
- Developed a chatbot using ChatGPT capable of searching the internet to find relevant answers to current events.
- Using Large Language Models, Ava can know when to use a search API to lookup documents to aggregate and summarize into a concise answer, allowing it to expand its view of the world past its training cutoff date.
- Utilized Python and the OpenAI API for the backend, React and TypeScript for the frontend, and deployed the project to Azure Kubernetes Service using Terraform with automated CI/CD.

Med Manager Mobile App   Spring 2021
- Worked with a team of engineers through Georgia Institute of Technology to design and develop a cross-platform medication tracking app using React Native, Node.js, Twilio and MongoDB.
- Helped develop 20+ frontend screens, 50+ components, routing, state management, and critical backend functionality utilizing agile planning with 2-week sprints and daily standup meetings.
- Performed extensive unit testing and integration testing to ensure accuracy and reliability of the medication tracking system.
- Achieved an A+ grade on the team project.

Claire Mobile Dating App   Fall 2019
- Worked with a team of engineers through Georgia Institute of Technology during a hackathon to design and develop a dating app that aims to break down the superficial bearer of modern dating apps.
- Utilized GCP and Firebase to perform authentication and store critical user data.
- Performed sentiment analysis on user conversations after matching using GCP functions and Google Cloud Natural Language API.
- Developed the profile swiping UI using React.js which included animations and unit tests to verify reliability.
- Developed the profile picture blurring functionality which responds to the sentiment of a conversation over time after two users match with each other.
- Placed second overall in the competition winning over $300 in prizes.
- Technologies used: React Native, Node.js, GCP Functions, Google Cloud Natural Language API, Firebase