

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 web and mobile applications.

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 using IBM's Watson Assistant which powers complex virtual assistants for different use cases.
- Led the design and implementation of the Coeus dashboard utilizing React.js, TypeScript and CSS, which integrates with Stripe, authentication systems, and RESTful APIs allowing for a streamlined UX.
- Led the development of the Coeus API utilizing MongoDB and an event-based architecture across all services with Apache Kafka, which allowed us to scale and maximize data quality, scope, operability, and flexibility.
- Tested and deployed 12+ microservices to staging and production environments on AWS EKS using Terraform, configured monitoring, and set up automated CI/CD using GitHub Actions and FluxCD.
- Utilized agile development with bi-weekly scrum sprints from project inception to delivery.
- Optimized the creation of Coeus demos by creating an application using Python and React.js that can automatically train and provision resources to create a custom demo from a small set of customer data, reducing turnaround time by up to 30%.
- Worked closely with the IBM team to help grow their Watson Assistant product offering to a market of millions of small businesses that currently don't utilize an AI chat solution for customer service.

Frontend Developer

Jun 2019 - Jun 2021

Data Fusion Specialists, Rome, GA

- Designed and developed the Coeus web chat widget utilizing JavaScript, TypeScript, React.js, and CSS that can be easily embedded onto a customer's website.
- Designed, developed, and deployed a reusable UI component library for Coeus using React.js, JavaScript, TypeScript, CSS, Webpack, and Storybook.js for visual testing and documentation.
- Wrote countless unit and integration tests using Jest and Cypress to verify the functionality and accessibility of the chat widget's UI/UX.
- Rebuilt the company website using Gatsby.js 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, Melbourne, FL

- Worked with an agile, cross-functional team of designers and engineers to create a library of dashboard components and screens using React.js for an aircraft assembly line management application.
- Modified existing React.js code to correct for errors and reduced the applications bundle size resulting in a 30% increase in runtime efficiency.
- Utilized agile development with frequent client feedback and weekly scrum sprints.

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, Redux, Next.js, Gatsby.js, React Native, Tailwind CSS

Backend: Node.js, Python, Java, Spring, 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 (LLMs), the chatbot decides 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.
- Led the development of all frontend screens, components, and critical backend medication tracking functionality utilizing agile planning with 2-week scrum sprints and daily standup meetings.
- Implemented medication reminder notifications for both iOS and Android users.
- Performed extensive unit testing and integration testing to ensure accuracy and reliability of the medication tracking and notification 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 using React Native 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 which included complex 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.