

Samuel Gamage

Atlanta, GA | (301) 473-3404 | sammygamage@gmail.com

[LinkedIn](#) | [GitHub](#) | [samgamage.dev](#)

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

June 2021 - Present

Data Fusion Specialists, Rome, GA

- Led a cross-functional team that created Coeus, a SaaS that allows customers to train custom AI models which power complex virtual assistants for different industries.
- Architected and implemented the entire platform from scratch using JavaScript, TypeScript, React.js, Python, and Node.js which is now used by many businesses.
- Deployed and tested 12 individual microservices to staging and production environments on AWS using Docker, Terraform, and Kubernetes.
- Designed and implemented a distributed, event-based architecture using Apache Kafka allowing us to process 500+ conversational requests per minute.
- Increased load speed of the web chat widget by 40%, which resulted in greater user engagement and a 10% conversion rate growth for our customers.
- Automated build and deployment processes of each microservice through GitHub Actions and FluxCD.
- Provided technical guidance to the team and mentored other engineers in software design and development activities.
- Facilitated agile development through sprint planning, daily scrum, and retrospective meetings.

Front End Developer

June 2019 - June 2021

Data Fusion Specialists, Rome, GA

- Designed and implemented the Coeus web chat widget utilizing JavaScript, TypeScript, React.js, and CSS that can be easily embedded onto a customer's website.
- Prototyped new UI components and animations, improved performance and stability of UI and JavaScript runtime.
- Developed unit and integration tests using Jest and Cypress increasing test coverage of some components to 95%.
- Rebuilt the company website from scratch with content sourced via GraphQL from a CMS, resulting in a more manageable, performant site, and increasing the number of monthly visitors by 50%.

Front End Developer

October 2018 – June 2019

Embraer, Melbourne, FL

- Worked with a 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.
- Overhauled existing React.js code to correct for errors and reduced the applications bundle size resulting in a 30% increase in runtime efficiency.
- Prototyped new graphs and visualizations using D3.js and React.js.

EDUCATION

Bachelor of Science (B.S.) - Computer Science

May 2022

Georgia Institute of Technology, Atlanta, GA

Relevant Courses: Data Structures and Algorithms, Natural Language Processing, Machine Learning, Intro to AI, AI Ethics & Society, Computer Architecture

SKILLS

Front End: HTML/CSS, JavaScript, TypeScript, React.js, Next.js, Webpack, Redux, React Native, D3.js

Back End: Node.js, Python, Flask, Java, Spring, GraphQL, SQL, REST, Networking, Linux

Tools: Amazon Web Services, Azure, Google Cloud, Firebase, Git, Docker, Kubernetes, Prometheus, Apache Kafka, MongoDB, PostgreSQL, Redis, ArgoCD, FluxCD, GitHub Actions, Terraform

Machine Learning: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas

PROJECTS

Ava Chatbot

Spring 2023

- Developed a chatbot using ChatGPT capable of searching the internet to find relevant answers to current events and news.
- 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.
- Utilized Python and the OpenAI API for the back end, React and TypeScript with Chakra UI for the front end, and deployed the project to Azure Kubernetes Service using Terraform with automated CI/CD.

Med Manager Mobile App

Spring 2021

- Led a team of engineers from Georgia Institute of Technology that created a cross-platform medication tracking app using React Native, JavaScript, Node.js, Twilio and MongoDB.
- Designed and implemented mobile screens, components, and critical medication tracking functionality utilizing JavaScript and CSS.
- Facilitated agile development through 2-week sprints, daily scrum meetings and retrospective meetings.
- Implemented medication reminder notifications for both iOS and Android users.
- Developed unit testing using Jest 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 from Georgia Institute of Technology during a hackathon to design and develop a dating app using React Native & JavaScript that aims to break down the superficial bearer of modern dating apps.
- Implemented algorithm using JavaScript which performs 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 and accessibility.
- Developed the profile picture blurring functionality which responds to the sentiment of a conversation over time after two users match with each other.
- Utilized GCP and Firebase to perform authentication and store critical user data.
- Placed second overall in the competition winning over \$300 in prizes.