Zachary A. Flegle

zflegle3@gmail.com • (404) 790-1309 • Github • Portfolio

Professional Experience

KnoCommerce Remote, United States

Full Stack Software Engineer

June 2023 – Present

- Led the development of three secure integrations with external e-commerce platforms, leveraging OAuth 2.0 and other authentication protocols to enable seamless survey data exchange for marketing campaign automation
- Designed and implemented a reporting feature using SQL and dynamic Vue components to aggregate and display brandlevel survey data alongside global benchmark data, empowering users with actionable insights across demographics such as age and gender
- Built a multilingual user registration flow and survey system for TikTok's global survey integration, using Vue, Nuxt.js, Node.js, and PostgreSQL, successfully onboarding 1000+ users within the first 6 months
- Partnered with another developer to migrate the application's front-end codebase from Vue 2 to Vue 3 and deploy a modern UI component library, improving maintainability and enhancing user experience
- Developed a plan upgrade UX to transition users from free to paid plans while collaborating with product leadership and customer-facing teams to quickly iterate and refine the feature ahead of the new plan launch deadline

Upwork Remote, United States

Freelance Front End Software Developer

January 2023 – July 2023

• Implemented interactive UI components and user flows with React and Node.js, enabling intuitive user interaction and functionality across two web applications

Procter & Gamble Cincinnati, Ohio

Global Material Developer

February 2021 – December 2021

- Managed nonwoven topsheet development by fostering strong supplier relationships, defining material specifications,
 and collaborating with project stakeholders across multiple international locations to ensure successful product delivery
- Led the research, development, and production of four innovative nonwoven topsheet materials, resulting in \$2 million of annual net savings and mitigating supply chain risks during the COVID-19 pandemic

Gulfstream Aerospace

Savannah, Georgia

Operations Engineer I & II

July 2018 – December 2020

- Spearheaded the development and implementation of a manufacturing conformity software, resolving over 300 installation discrepancies and ensuring proper engineering configuration on all experimental aircraft
- Identified anomalies in the aft longitudinal splice design and led cross-functional collaboration to redesign the structures and manufacturing processes, achieving an annual cost savings of \$126,000 per aircraft program

Co-Op Program Mentor

July 2018 – December 2020

Supervised a weekly mentorship program to provide students with professional development skills and experiences

Programming Experience

Ski Conditions Visualization Web Application

<u>Live Demo</u> | <u>Source Code</u>

- (JavaScript, React.js, Redux, Sass, Node.js, Express, MongoDB, Mongoose, Jason Web Tokens, Google Maps API, Vercel)
- Designed and published a winter weather application with an intuitive Google Maps user interface, enabling users to search, visualize, and sort real-time ski conditions for over 300 resorts across the United States
- Built a RESTful API and a non-relational database to manage user CRUD functions including authentication, profile updates, and image uploads, resulting in efficient data management and a seamless user experience

Battleship Game vs Computer Algorithm

<u>Live Demo</u> | <u>Source Code</u>

(JavaScript, HTML, CSS, Webpack, Jest)

• Employed Test Driven Development (TDD) methodologies using the Jest testing framework to develop a single player game application, leading to improved code quality and increased confidence in program execution

Technical Skills

Languages: HTML, CSS, Sass, JavaScript, TypeScript, Matlab, Python, SQL

Frameworks/Databases: Vue.js, React.js, Pinia, Vuex, Redux, Tailwind CSS, Node.js, Express, PostgreSQL, MongoDB, Mocha **Tools & Miscellaneous:** Git, Github, Npm, Webpack, Vercel, Heroku, Postman

Education

Georgia Institute of Technology

Atlanta, Georgia