Zander Ambrose 🔗 🦊 🗔

Software Engineer

alexander.d.ambrose@gmail.com +860-808-8655 New York

Profile Summary

- Software Engineer experienced in building and deploying full stack solutions. Well versed in Object-Oriented Programming, Data Structures & Algorithms.
- Full-stack developer with a strong command of programming languages including JavaScript/TypeScript, Python, and C/C++. Proficient in designing UIs with React, writing server-side applications and building APIs, and manipulating SQL & NoSQL databases. Solid understanding of Authentication, Security, and version control.
- DevOps experience creating and optimizing CI/CD pipelines using Gitlab, troubleshooting projects, and providing technical guidance, and proficient in Linux server administration by performing deployment work via Docker and Docker-compose.
- Background in system monitoring and observability using Prometheus and Grafana to ensure uptime and performance, along with real-time alerting.
- Fast learner able to rapidly ramp-up and develop new skills, and enthusiastic problem solver, comfortable with providing innovative & creative solutions.
- Engaged collaborator with strong interpersonal skills, able to influence and align multiple teams with conflicting priorities to drive progress under aggressive time constraints.

Education

Univ. of Miami, Frost School of Music ⧉

M.A. in Music in Jazz Pedagogy
Coral Gables, FL, 2018-2020

B.A. in Studio Music and Jazz Performance
Coral Gables, FL, 2014-2018
Coursework: Minor in Music Business and Entertainment Industry.

Technical skills

Languages: JavaScript/TypeScript, Python, C/C++, HTML, CSS
Frameworks & Libraries: React, Next.js, Node.js, Express, Django, Ionic, React Native, Electron
Databases: PostgreSQL, MongoDB, Redis
Dev Tools: REST, GraphQL, Websockets, Webpack, Vite
Cloud & DevOps: Docker, Docker-Compose, CI/CD
Testing: Jest, Testing-Library, WebdriverIO, Cypress, Pytest

Professional Experience

Fractal Networks ⧉ Software Engineer   New York, NY Aug. 2021 - Present

- Played a pivotal role at every stage of the software development life cycle, by planning and designing front-end features for a self-hosting solution company's website, before implementing with TypeScript/JavaScript and associated web technologies.
- Thoroughly assessed and defined technical requirements, to design a system architecture optimized for speed and scalability, with clarity on time, cost and impact.
- Collaborated with cross-functional teams including Front-End, Back-End, and DevOps, to design and implement new features, enhance usability, and improve performance, driving rapid and continuous improvement.
- Developed the user interface, incorporating cutting-edge front-end technologies such as Next.js, Typescript, and Recoil state management library, resulting in a seamless and intuitive user experience. Utilized advanced CSS for all user events.
- Utilized Python, Django, Docker, and Postgres to build a robust and scalable backend, delivering high-performance and reliable service to customers.
- Implemented the Fractal-Mosaic page, utilizing abstractions over docker-compose and Wire-guard Networks. Integrated Next.js, Typescript, Next Auth social authentication package, Recoil State management, and React Table in order to achieve the goals of effortless deployment and efficient management of the application.
- Conducted extensive testing and debugging to identify and resolve issues, and used industry leading testing tools and frameworks such as Jest, React testing library, Web Driver IO, Cypress, and Pytest to implement efficient tests
- Leveraged agile development methodologies to manage projects, streamline development processes, and optimize team performance, resulting in faster time-to-market and increased productivity.

Independent Freelancer Web Developer   Miami, Fl Jan. 2021 - Aug. 2021

- Designed, and built websites using current technologies and design trends while optimizing content for mobile/responsive layouts across all browsers.
- Conceptualized, designed and developed multiple websites and web applications for clients on a freelance basis, leveraging web technologies including HTML, CSS, JavaScript, React, and Firebase from Google for back-end and deployment requirements.

- Conducted intake meetings with customers to understand and analyze their goals and align recommendations to their overarching strategy. Conveyed challenges and opportunities in a clear and concise way, adapting the message to each client's specific technical literacy.
- Evaluated technical requirements and researched adequate technologies, analyzing benefits and drawbacks in terms of scalability and sustainability, and aiming at avoiding future technical debt.
- Utilized JavaScript with React to allow for the dynamic rendering of modern components and deliver a compelling user experience. Optimized for responsiveness, cross-browser compatibility and accessibility.
- Strived for self-development by researching and completing multiple online courses, to ramp-up on additional technologies and further contribute to the company.

Projects Experience

Simply Food ⬈

Jun. 2021 - Jun. 2021

- Developed an application that exhibited recommended recipes based on cuisine type or ingredients found in one's pantry, offering a seamless and enjoyable browsing experience for food enthusiasts.
- Leveraged the spoonacular and mealDB APIs for previous projects, and constructing an upcoming social registry app called Gift Queue from the ground up using the React ecosystem, which encompasses an array of advanced tools and technologies including Typescript, NextJs, Python, Django, Nginx, Postgresql, and a Github action CI/CD workflow.

Developer Portfolio ⬈

- Designed and developed a portfolio website to display project links and GitHub code examples from personal projects, utilizing React , CSS Grid, and Flex-box.
- Crafted an aesthetically pleasing and functional website that served as a digital portfolio, showcasing abilities and experience to potential clients and employers.