JACOB ALSPAW

Staff Frontend Engineer

Lakewood, OH 44107, United States

636-699-7344   dev@jacob-alspaw.com

PROFILE

Staff Frontend Engineer & UI Lead driving strategy for complex, multi-application platforms. Scales teams through clear standards and mentorship while reducing technical risk. Sets technical direction for performance, accessibility, consistency, and maintainability, delivering upwards of 80% improvements in load time and runtime efficiency. Led Vue 2 to Vue 3 modernization efforts across 650+ components and developed a shared design system to standardize delivery across product offerings. Trusted contributor on mission-critical satellite systems, providing reliable leadership in high-stakes environments.

EMPLOYMENT HISTORY

❖ Staff Frontend Developer & Satellite Operator, Loft Orbital   Jan 2022 — Present

Denver, CO

- Led frontend architecture and technical direction, aligning UI systems with product strategy and successfully delivering complex cross-application initiatives
- Re-architected the data-fetching layer to reduce network overhead and improve caching, cutting page load times and runtime bottlenecks by up to 80%
- Drove a migration from Vue 2 to Vue 3 across 650+ components, modernizing tooling, dependencies, and patterns to current best practices while reducing maintenance risk
- Designed and launched a shared design system and component library, improving accessibility, visual consistency, and accelerating feature delivery across multiple web apps
- Standardized delivery processes (Jira/MR templates, linting, formatting, backlog management) to boost developer productivity and predictability
- Mentored frontend engineers via code reviews, pair-programming, and technical coaching, elevating code quality and team velocity
- Supported ongoing satellite fleet health management, assisting with health assessments and helping identify and respond to anomalies to maintain mission continuity

❖ Frontend Lead & Full-Stack Software Engineer, IBM UrbanCode   May 2019 — Jan 2022

Cleveland, OH

- Led the frontend team for two enterprise DevOps products (IBM/HCL), owning roadmap execution, code quality, and release readiness
- Standardized release validation processes to ensure UI functionality and content matched business requirements prior to client delivery
- Diagnosed and eliminated performance bottlenecks, achieving up to 125x faster page rendering
- Cut known UI defects in the backlog by over 90% within 10 months, strengthening client relationships
- Earned Distinguished accreditation in all performance reviews
- Partnered with a global support team to meet SLAs on issues affecting multimillion-dollar client investments
- Acted as a dedicated technical advocate for high-profile accounts
- Troubleshot complex issues including Java JRE bugs, network connectivity, licensing, and product defects

❖ Full-Stack Software Engineer Intern, Pointe Blank Solutions   May 2016 — May 2019

Westlake, OH

- Contributed to an enterprise suite of web applications streamlining the justice process and integrating agencies across 50+ Ohio counties
- Gained hands-on familiarity with C#, .NET, SQL Server, HTML5/CSS3, JavaScript/TypeScript, jQuery, server- and client-side rendering, Git, CI/CD, and automated testing while delivering features and maintaining systems
- Trusted to implement meaningful changes in complex codebases, while collaborating through reviews and pair-programming to ensure reliability and performance

♣ Company Founder & Lead Engineer, CWRUded .... Aug 2018 — May 2019
Cleveland, OH

- Founded and led development of a data-driven web service (Node.js, MongoDB, React) and iOS app surfacing real-time campus "busyness" metrics
- Leveraged address resolution protocol (ARP) and Cisco Prime Infrastructure API to aggregate unique active wireless clients across campus access points
- Devised algorithms to infer and forecast crowd levels across points of interest on campus
- Planned and led meetings with deans, network admins, and IT marketing to pilot and promote the service

♣ Project Manager & Lead Developer, Synchrony .... Aug 2018 — May 2019
Cleveland, OH

- Project-managed and led development of a synchronized streaming service (piggy-backing off Spotify API) enabling shared playlist collaboration and discovery
- Designed and implemented an accessible, mobile-optimized user interface, meeting accessibility standards while prioritizing usability on smartphones
- Recognized with academic honors for the year's most outstanding electrical engineering and computer science department capstone project

♣ Teaching Assistant & Peer Tutor, Case Western Reserve University .... Aug 2016 — May 2019
Cleveland, OH

- Led recitations and tutoring workshops to reinforce coursework and improve student outcomes across multiple computer science and electrical engineering courses
- Tailored instruction to a diverse set of learning needs
- Collaborated with faculty to align lesson plans with students' strengths and weaknesses
- Graded assignments, quizzes, and exams while maintaining accurate records in university systems

EDUCATION

♣ Case Western Reserve University .... Aug 2014 — May 2019
Cleveland, OH

B.S. in Computer Science

- Major GPA: 3.63/4.00
- Honors: Recognized for the department's most outstanding EECS capstone project (2019)
- Relevant coursework: Data Structures & Algorithms, Operating Systems, Systems Programming, Databases, Computer Networks & Security, Software Engineering, Mobile App Development, Programming Languages, Project Management

SKILLS

Javascript/Typescript	**Expert**		Jira	*Experienced*
HTML/CSS	**Expert**		Figma	*Experienced*
Vue	**Expert**		Responsive Design	*Expert*
React	*Experienced*		UI/UX,	*Experienced*
Apollo GraphQL	**Expert**		Web Performance Optimization	*Expert*
Vite/Webpack	**Expert**		Accessibility	*Skillful*
Vitest/Jest	*Experienced*		Java	*Experienced*
Git	**Expert**		Swift	*Skillful*

HOBBIES

Swimming, running, strength training, hiking, rock climbing, skiing, traveling, board games, card games, video games, puzzles