Karson A. Kalt

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PROFESSIONAL SUMMARY

I'm a product-focused senior full stack engineer with 4 years of experience focusing on front-end architecture. I specialize in designing clear layers and building scalable client-side application foundations—composable modules and patterns that grow into larger systems and enable teams to move quickly and confidently. I am known for bridging design and engineering, mentoring across disciplines, and delivering app architecture solutions to help startups scale quickly and confidently. I consider myself a people-first person and enjoy working with non-technical stakeholders to deliver the right solutions for the end user and improve developer experience..

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, SQL, PostgreSQL, Ruby
Frontend	React, React Native, D3, Vite, Webpack, Storybook/Chromatic, Cypress, Jest/Vitest, React Testing Library, Browser Performance Optimization, Web Accessibility, Internationalization
Backend/Cloud	Node.js, Deno, Express/Koa, GraphQL, AWS Lambda, DynamoDB, RDS, S3, Neo4j
DevOps/Tooling	NewRelic, Postman, Git, GitHub Actions, Jenkins, Terraform, Expo
Design	Figma, Adobe Illustrator, SVG Animation, Design System Governance

PROFESSIONAL EXPERIENCE AND PROJECTS

Technical Lead and Founding Engineer (Side Project) February 2023 - Present
As1 Social Remote
- Architected the company's first mobile app using React Native, delivering a complete CI/CD pipeline, scalable project structure, and deployment infrastructure to support a fast-approaching launch.
- Led and mentored a team of 5 engineers through agile planning and feature prioritization with a non-technical founder, delivering weekly builds and maintaining product delivery under a tight delivery timeline.

Senior Software Engineer and Team Leader – Applications July 2023 - Present
JupiterOne New York, NY

Graph Database Anomaly Detection
- Lead a cross-discipline team of 3 Data Scientists and 3 Software Engineers, enabling faster innovation and product delivery, successfully shipping anomaly detection for our graph database.
- Improved system reliability and maintainability by integrating Poetry, Pylint, MyPy, and PyTest into CI/CD to strengthen code quality, package management, type checking, and testing.
- Transformed Databricks Notebooks into a production system using Spark, Pandas, NumPy, and ElasticSearch.
- Modularized Databricks jobs by breaking apart processing tasks, enabling targeted retries without full job reruns.

Natural Language Querying
- Designed and developed the integration of generative AI into our search experience, converting natural language to our query language. Resulted in one of our highest adoption rates and helped accelerate platform time-to-value.
- Implemented a vector database embedding cache, improving query response times and reducing operational costs.
- Implemented Natural Language Processing (NLP) techniques including fuzzy matching and stop word filtering to enhance search precision.

Software Engineer – Applications February 2022 - July 2023
JupiterOne New York, NY

Monolith to Microfrontend App Transition
- Supported the implementation of single-spa to transition our React monorepo to a microfrontend architecture, which resulted in expedited PRs, minimized merge conflicts, and accelerated deployment times.
- Organized shared code to domain-specific packages, fostering a maintainable approach to code sharing.
- Centralized repo configs for linting, validation, repo configurations, code formatting, and project configs – helping to promote consistency and scalability across a distributed system.

Design System Development
- Spearheaded the development of JupiterOne's design system, including creation of a comprehensive component library, design tokens, and theming system. Helping to streamline the development process and enabling engineers to focus on core feature development.
- Supported and ushered adoption of the design system which led to WCAG 2.1 AA and FedRAMP compliance, enabling eligibility for government contracts and acquisition of new accounts.
- Crafted standardized-yet-customizable component APIs through a mix of composability, customization, and "component slots". Balanced flexibility with ease-of-use, allowing for customization without excessive rigidity. Leveraged standard naming conventions and JSDoc for streamlined development.
- Led the initiative to adopt Storybook and Chromatic for visual regression and interaction testing across the application, helping improve deploy confidence and proactively protecting against UI issues.

Software Engineering Technical Coach   October 2021 - January 2022
Flatiron School   New York, NY
- Led 16 students with non-technical backgrounds through the Software Engineering course, helping teach them the basics of computer science with pair programming sessions, bi-weekly lectures, and reviewing projects.

Field Implementation Business Partner – New Stores and Remodels   June 2014 - September 2021
Target (Store Operations)   New York, NY
- Directed and managed field teams, general contractors, and various trades across 9 large-scale, multi-million dollar construction projects across the US, ensuring timely completion within budget and quality standards.
- Collaborated closely with diverse businesses and stakeholders throughout the construction project lifecycle, fostering effective communication and alignment to optimize construction schedules and minimize operational disruptions.
- Proactively addressed construction-related challenges and obstacles during construction projects, leveraging strong problem-solving skills and collaboration with stakeholders to adapt to changing conditions and ensure success.
- Received recognition for exceptional project management skills and continuous improvement initiatives.

COMMUNITY INVOLVEMENT

Software Engineering Mentor   September 2024 - December 2024
Out In Tech   New York, NY
- Acted as a mentor for 5 LGBT students in their final year of their CS degree, helping them to develop and deploy real projects and network with the NYC tech community.

Software Engineering Mentor   March 2022 - November 2023
Code The Dream   New York, NY
- Acted as a mentor for low income and BIPOC students who are new to tech. Taught students the fundamentals of Express, React, MongoDB, and GitHub.
- Worked with 26 students and supported them in the job search process.

EDUCATION

Utah Valley University   April 2014
B.S. Digital Marketing   Salt Lake City, UT
- Magna Cum Laude
- Leadership Certification with High Distinction
- National Conference on Undergraduate Research
- 1st Place American Marketing Association Strategy National Competition

REFERENCES

Professional references available upon request.