Sangmin Lee

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Summary

Frontend-focused fullstack engineer with 10+ years of experience building SaaS and enterprise applications. Specialized in **UI architecture, reusable libraries, performance optimization, and experimentation at scale** (200+ enterprise tests). Proven ability to operate at **staff level**: mentoring engineers, collaborating with design and product teams, and influencing roadmaps and contract deliverables. Founder of **Mindcraftor.ai** (2,000+ users) with expertise in **AI workflows, SaaS billing, and product-market validation**.

Skills

- **Frontend Systems & Architecture:** React, Next.js, Angular, TypeScript, JavaScript (ES6+), Zustand, NgRx, Redux, Web Components, Lazy Loading, Modular Architecture, Responsive Design
- **Performance & Visualization:** CesiumJS, D3.js, Web Workers, State Management, 3D/2D Rendering Optimization, UI Performance Profiling
- **Backend:** Node.js (primary), Python (working proficiency), REST APIs, GraphQL
- **Databases:** PostgreSQL, MySQL, Supabase, MongoDB
- **Other:** Docker, Stripe, Vercel, DigitalOcean, AWS, Optimizely

Experience

Senior Fullstack Engineer (Co-Founder), 03/2025 – Current
Mindcraftor – Palisades Park, NJ

- Built AI SaaS platform (Next.js, Supabase, Stripe) scaling to **2,000+ users with paid conversions**.
- Integrated **OpenAI Responses API with live search** for idea generation and validation workflows.
- Architected modular APIs and database schemas for expansion into CX agents, compliance copilots, and real estate analytics.

Senior Frontend Engineer (Consultant), 06/2021 – Current
SAE.SO – Remote

- Delivered **200+ client-side A/B experiments** for a **Fortune 1000 enterprise health & wellness enterprise**, across multiple product lines.
- Engineered **DOM-diffing and mutation-observer strategies** to inject experiments into dynamic WordPress/Next.js apps.
- Partnered with PMs/CRO analysts to align experiments with **business KPIs**.
- Act as a **guardrail for product quality**, refining flawed test designs to ensure valid, actionable results.

Senior Research Scientist, 01/2021 – 05/2025
Peraton Labs – Basking Ridge, NJ (Remote)

- Led frontend modernization: **lazy-loaded modules, modular libraries, and state management**, improving maintainability and responsiveness.
- Optimized Cesium 3D apps with **web workers and 2D fallback**, achieving **~38% faster load times**.
- Mentored junior engineers and set frontend standards adopted across projects.
- Influenced roadmap and supported **multi-million-dollar contracts** with performant prototypes.
- Adapted across multiple languages and frameworks in a **PhD-driven R&D environment**, consistently delivering production-ready solutions that bridged research prototypes with real-world applications

Senior Full Stack Engineer, 12/2016 – 01/2021
Verdocs – New York, New York
- **Pioneered library-first architecture**: modularized e-signature flows into standalone, reusable libraries.
- Created **framework-agnostic embeds** (Angular custom elements / web components) usable across any JavaScript framework.
- Championed modular project structures, treating UI modules as independent projects to accelerate development and improve maintainability.
- Mentored junior devs on scalable UI practices, embedding, and modularization techniques.

Lead Front End Developer, 09/2015 – 12/2016
Complex Networks – New York, New York
- Led frontend revamp of high-traffic media sites serving **millions of monthly visitors**.
- Defined coding standards and mentored junior engineers, raising team-wide frontend practices.
- Partnered with CRO, design, and PM teams to deliver **conversion-focused experiments**.

Education
Master of Science Computer Science, 9/2011 – 12/2013
New York Institute of Technology – New York, NY

Bachelor of Science Accounting, 09/2004 – 05/2008
New York Institute of Technology – New York, NY