David Lac

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Software Engineer
Drive Seamless User Experiences Through End-to-End Product Ownership in Modern Web Applications

Results-focused professional with extensive experience building secure, high-performance web applications, with focus on React.js and modern architectures. Full ownership of products — from design to deployment — while working closely with cross-functional teams to align technical decisions with user needs and business goals. Skilled at troubleshooting complex issues, designing intuitive UIs, and integrating seamlessly with backend systems and hardware in biometrics, identity, and e-commerce.

Full-Stack Development | Secure Coding & Testing |Product Ownership & Collaboration
Performance & Code Quality| Legacy Modernization | Device & Biometric Integration

TECHNICAL SKILLS

Frontend:	React.js, Next.js, TypeScript, JavaScript, Tailwind, Electron.js, React Native, jQuery
Backend:	Node.js (Express, Fastify, NestJS), Go (GoLang), Java (Spring Boot)
Databases:	SQL, OracleDB, PostgreSQL, MongoDB, GraphQL
DevOps & Infrastructure:	Git, Mercurial, Docker, Jenkins, Windows Server (IIS), Linux, Apache, AWS
Authentication:	Keycloak, Active Directory (LDAP), Single Sign-On (SSO), JWT
Tools & Collaboration:	Jira, Figma, Confluence, Trello
Testing & QA:	Jest, Artillery, Fortify, NexusIQ, SonarQube, WebInspect
Data Visualization & Media:	D3, Chart, Three, QR, FFmpeg, WebRTC, OpenCV, TensorFlow, MediaPipe
Other:	RabbitMQ, NIST ANSI/NIST-ITL, Canon Camera SDK, Fingerprint Biometric SDKs

PROFESSIONAL EXPERIENCE

Thales Identity & Biometric Solutions (IBS), Pasadena, CA
Software Engineer, 2019 – 2025

Developed full-stack, security-critical applications for government and law enforcement agencies with focus on biometrics, identity management, and secure data workflows.

- Drove significant contract sales and renewals by leading development of new WebID, a browser-based fingerprint capture and matching platform integrated with criminal and civilian databases, supporting USB and Bluetooth fingerprint devices.
- Architected and rebuilt Web Archive, a digital criminal record platform supporting seal and expungement workflows for county and state justice departments, improving operational efficiency and legal compliance.
- Contributed to multiple key solutions including NIST Viewer, ACE-V, Cogent Mugshot System, Transaction Monitor, and Badge-ID - gaining broad exposure to diverse tools, SDKs, and libraries across biometrics and identity.
- Supported field deployments in CA and MD, providing on-site debugging, system validation, and rapid issue resolution under time-sensitive conditions.
- Created reusable React frontend boilerplate, improving team velocity and standardizing UI architecture. Served as a go-to resource for complex web issues, fostering a collaborative, solution-oriented engineering culture.
- Transitioned into R&D to productize and scale applications, aligning with stricter security standards and internal design systems.
  - Conducted performance tuning, penetration testing, and secure code reviews
  - Collaborated with QA and maintained clear documentation to ensure resilient, production-ready deployments across multiple regions including the US, Sweden, Algeria, France, and Puerto Rico.

Infinite Promotions, Los Angeles, CA
Full Stack Developer, 2018 – 2019
Joined an early-stage startup to design and build a MVP web platform for real estate agents. Developed automation tools for managing social media content using RSS feeds and Zapier-based workflows for scheduled auto-posting of property listings and industry articles.
- Built key features including an interactive client portal, admin dashboard, and both in-browser and backend tools for generating branded e-flyers and promotional videos.
- Engineered a custom web scraper, collecting and structuring millions of real estate leads for marketing outreach.
- Designed the product's logo, UI, and marketing site, reinforcing brand identity and improving conversion.

ADDITIONAL RELEVANT EXPERIENCE
Mediclo Inc., Los Angeles, CA
Contract Developer, Present
Hired to revamp a Shopify-based **e-commerce** site to align with updated brand guidelines and implement a new theme with several new functions and UI. Designed and built custom features, including product bundling, embroidery personalization, expanded product views, color swatch options, and enhanced cart functionality.
- Improved performance and user experience by implementing lazy loading and replacing full-page requests with dynamic data updates.
- Managed project workflow through Trello, ensuring transparency, cross-functional collaboration, and timely delivery.

Maplegrove, Inc., Chino, CA
R&D Manager

Girard's Foodservice, City of Industry, CA
R&D Technical Product Development Specialist

PROFESSIONAL PROJECT
Betaboulders *(w/ former clients: Touchstone Climbing Inc., Origin Climbing, DynoClimb)*
Developed an web and mobile application for indoor rock climbers to scan route tags, upload and stream video solutions, view annotated images, and track climbing progress.

- Enabled gym owners to manage climbs and member activity through custom dashboards and admin tools.
- Integrated an in-app QR code scanner with dynamic codes, a real-time competition scoreboard powered by WebSockets, and interactive charts, helping climbers monitor progress and routesetters analyze route popularity.
- Deployed as a cross-platform solution using Express.js, Next.js, MongoDB, and Apache Cordova (PhoneGap); previously live on Google Play, App Store, and the web.
- Collaborated with KAYA post-retirement, transferring and preserving core product features.

EDUCATION & CERTIFICATIONS
Bachelors of Science (BS), Biological Sciences – University of California (UC) Davis, Davis, CA
Certificate in Full Stack Web Development – UCLA Extension
Scrum Foundation Professional Certification (SFPC™) – CertiProf, 2025
Professional Scrum Product Owner I – Scrum.org, 2025
IBS AWS Bootcamp – Thales IBS Cloud Excellence, 2023