

DAVID LAC

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(626) 423-8985
LOS ANGELES, CA

TECHNICAL SKILLS

Frontend: React.js, React Native, Next.js, Typescript, Javascript, jQuery, Shopify (Liquid)

CSS: Tailwind, Bootstrap, Materialize

Backend: Node.js (Express.js), GoLang, Java (Spring Boot), Python

Databases: SQL, Postgres, OracleDB, MongoDB, GraphQL

DevOps & Infrastructure: GitLab, Mercurial, Docker, Jenkins, AWS, Windows Server, Linux

Auth: Keycloak, Active Directory (LDAP), Single Sign-On

Tools & Collaboration: Jira, Figma, Confluence, Trello

Quality Assurance: Jest (Unit Testing), Artillery (Stress Testing)

Application Security & Code Quality: Fortify, NexusIQ, Sonarcube

Machine Learning & Computer Vision: OpenCV, Tensorflow

Data Visualization & Media: D3.js, Chart.js, QR code generation/scanning, FFmpeg

Other: RabbitMQ, NIST ANSI/NIST-ITL, Fingerprint Biometric SDKs, Canon Camera SDKs

EXPERIENCE

Thales Identity & Biometric Solutions (IBS), Pasadena, CA; March 2019 – June 2025 (6 Years)

Software Engineer

I have extensive experience in biometrics, identity management, and security-focused government web applications with expertise in designing, developing, and optimizing full-stack solutions that meet customer specifications while adhering to strict security standards.

I've led the development of several key web platforms, including WebID—a browser-based biometric system for live fingerprint capture and secure matching against centralized databases—and Web Archive, a digital criminal record management system supporting sealing and expungement workflows. I've also contributed to multiple mission-critical applications, including NIST Viewer, Ace-V, Cogent Mugshot System, Transaction Monitor, and Badge-ID, gaining broad exposure to a wide range of tools, SDKs, and libraries.

As part of the North America Solutions Engineering team, my assignments were project-based. I customized and deployed applications to meet client specifications, including modernizing legacy systems that relied on ActiveX and Perl. This also included supporting deployments on-site in Anaheim, CA and Maryland, MA, and addressing emergency issues in the field.

To improve team efficiency, I developed a reusable boilerplate to standardize UI and project architecture, helping accelerate development and simplify onboarding for junior developers. I also frequently served as a go-to resource for teammates, helping resolve complex web application issues and fostering a collaborative, solution-focused environment.

I later transitioned to Research and Development to focus and develop projects into fully productized and customizable solutions aligned with Thales Quantum Design System and built to meet the highest security standards. These solutions were designed for broader scalability and deployment as part of the Thales Evidence & Investigation Suite across global markets, including Sweden, Algeria, France, and Puerto Rico.

I'm also experienced in performance tuning and penetration testing, ensuring our applications remain resilient and compliant with strict security guidelines. I've consistently maintained robust documentation, contributed unit tests, and worked closely with QA to deliver high-quality, production-ready software.

Infinite Promotions, Los Angeles, CA; June 2018 – March 2019 (1 Year)

Full Stack Developer

I developed a scalable web application for real estate agents to automate social media management based on RSS feeds, including auto-posting property listings and articles. Built features such as an interactive client portal, admin dashboard, in-browser and backend tools for generating e-flyers and videos, and a web scraper that collected millions of leads. Also designed the product's logo, user interface, and marketing page to support brand identity and conversion.

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OTHER WORKS

Mediclo Inc., Los Angeles, CA; June 2025 - Present

mediclo.com

Contract Developer

I'm currently revamping a Shopify-based e-commerce site to align with updated brand guidelines and implement a new Stretch based theme. I'm designing and building several custom features, including product bundling, embroidery personalization, expanded product detail views, color swatch options, and enhanced cart functionality. To improve performance and user experience, I've implemented lazy loading and replaced full-page requests and reloads with dynamic data updates. I'm also managing project workflow through Trello to ensure transparency, organization, and team coordination.

Betaboulders

betaboulders.davidlac.com

Personal Project (clients: Touchstone Climbing Inc., Origin Climbing, DynoClimb)

I developed a Progressive Web Application for rock climbers to scan route tags, stream and upload video solutions, view annotated images, and track climbing progress. This enabled gym owners to manage climbs and member activity. Key features included an in-app QR scanner with dynamic QR codes and real-time competition scoreboards powered by WebSockets (Socket.io). I deployed the app as a cross-platform solution using Express.js, Next.js, MongoDB, and Apache Cordova (PhoneGap), and it was previously available on Google Play, the App Store, and the web. After retiring the application, I collaborated with KAYA to help transfer key features.

EDUCATION

UNIVERSITY OF CALIFORNIA, Los Angeles, CA (October 2017)

Certificate in Web Development (Full Stack)

UNIVERSITY OF CALIFORNIA, Davis, CA (June 2012)

Bachelors of Science, Microbiology