

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)

Databases: SQL, OracleDB, MongoDB, Postgres

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

Authentication: 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: DataTables.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 – Present (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 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 handling emergency issues.

In my team activities, I developed a reusable boilerplate to standardize UI and project architecture in order to accelerate development and aid my colleagues/junior developers. In the spirit of fostering collaboration, I've actively supported team members by troubleshooting complex web application issues.

I later transitioned to Research and Development to focus and develop our applications into fully productized and customizable solutions aligned with Thales Quantum Design System and 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.

Documentation and optimization has always been essential to my work, so I'm experienced in performance tuning and penetration testing, ensuring application resilience and compliance. I've maintained robust documentation, implemented unit tests, and collaborated closely with QA to deliver high-quality, secure software.

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

Full Stack Developer

I developed a scalable application for real estate agents to automate social media management, including auto-posting listings and articles. This involved building tools for generating e-flyers and videos (both in-browser and backend), creating an interactive client portal, admin dashboard, and a web scraper that gathered over 1 million leads. Designed the product page, logo, and user interface.

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OTHER WORKS

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

Contract Developer

Revamping a Shopify-based e-commerce site to align with updated brand guidelines and applying a new theme. I am designing and implementing several missing custom features such as bundling, embroidery personalization, product details, and enhanced cart functionality. I have optimized the site for performance with lazy loading techniques and am managing the project workflow through Trello to maintain transparency and 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 tags, stream/upload video solutions, view annotated images, and track progress. This enabled gym owners to manage climbs and member activity. Application included an in-app QR scanner with dynamic QR codes and real-time competition scoreboards using websockets (Socket.io). Deployed as a cross-platform app using Express.js, Next.js (React.js), MongoDB, and Apache Cordova (PhoneGap). Previously available on Google Play, App Store, and the web. After retiring the application, I collaborated with KAYA on transferring 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