

Jonathan Leigh

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(949)-275-1981
Based in Irvine, California

PROFESSIONAL EXPERIENCE

Software Engineer – Design West Technologies Inc, Tustin, CA Dec 2023 - Present

- Optimized SQL performance for supply chain reporting-refactored queries, added strategic indexes, and layered in memory caching, slashing page load times from 35s to 2s and accelerating decision making.
- Deployed a MicroK8s container cluster, introducing rolling, zero-downtime deploys and eliminating single node failures to boost system reliability for Node.js backend.
- Built a real-time maintenance tracking portal (PHP/JavaScript) that replaced manual logs; dashboards revealed Q4, 2023 compliance rates of 60-70%, empowering managers with actionable insights and leading to compliance north of 90%.
- Engineered a test tracking system for 5 distinct weapons module products (~30 tests/day with 20+ distinct tests): QR-code driven iPad UI guided operators through failure workflows, centralized 100% of test data, and fed executive reporting. This allowed for each weapons module to have a digital living document at each stage in the testing process and track data on which tester and operator was responsible at each step.
- Reworked a legacy PHP/JS work instruction interface in React and Node.js for electronics modules on a significant weapons system, improving module pass rate from 40% to 95% and reducing page 1500ms load times in the legacy system to 100-200ms.
- Architected a backend analytics dashboard to surface 10+ QA/QC KPIs (first pass yield, failure rates, scrap rates) in real-time for C-suite stakeholders, built with PHP and JavaScript.
- Developed a Material Requirements Planning (MRP) tool (React/Node.JS/TypeScript) that analyzes supply, demand, and inventory data to flag component shortages and prompt creation of purchase or work orders—streamlining procurement workflows and reducing shortage risk.

Software Engineer – Strategy Companion, Irvine, CA. Oct 2023 – Feb 2024

- Designed, wrote agile specifications, made a proposal, and built a backend for a customer facing user portal in using Node.js, TypeScript, React, Stripe, Material UI and AWS Lambda for a business intelligence / analytics application.
- Reduced graph rendering times by 55% by caching data to reduce calls to SQL database to ensure a fluid user experience.

Software Engineering Intern – LNS Integration, Kuala Lumpur, Malaysia June 2019 – August 2019

- Automated MS SQL Server ETL pipelines to merge pharmaceutical sales and CRM data, cutting daily report prep from hours to minutes and ensuring timely executive dashboards for clients.
- Cleaned/normalized CRM doctor contact data using Python to improve report accuracy.

Software Engineering Intern (DSA) – Teradata, San Diego, CA June 2018 – September 2018

- Implemented C++ CLI modules to expose backup and lock-statistics in Teradata's massively parallel processing (MPP) environment, enabling clients to monitor migration progress in real-time.
- Developed Python unit tests in Jenkins CI/CD, establishing a continuous integration workflow that increased test coverage and cut manual test cycles.
- Used semaphores and resource locks in concurrent C++ tooling to prevent race conditions during backup-status and migration-state updates in Teradata's MPP environment.

EDUCATION

BSc in Computer Science - UC San Diego, San Diego, CA Class of 2022

- Advanced Data Structures, Managing Diverse Teams, Software Tools and Techniques, Software Engineering, Deep Learning, Operating Systems, SQL Databases, Machine Learning

PROJECT EXPERIENCE

- **Category First Place – LA Hacks 2017 – Kinect Coach:** Implemented an app that scored body form of athletes using Azure's machine learning platform for three different sports.

LANGUAGES AND TECHNOLOGIES

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- **Programming Languages:** TypeScript, JavaScript, PHP, Python, C++, HTML/CSS
 - **Databases:** AWS DynamoDB, MySQL, MS SQL Server,
 - **Technologies:** AWS, node.js, React, React Native, Firebase, Git, CI/CD, Docker, Express.js, Agile/Scrum