Leo Harada
Software Engineer

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Summary

Leo is a senior software engineer with over 10 years of experience in software design and development. Throughout his career, he has worked in various industries, gaining valuable insights and expertise in software development. As an individual contributor, he supported several startups, medium sized companies to boost productivity with robust IT strategy to stay ahead in today's competitive market. He has a proven track record of launching 5 projects successfully, showcasing his ability to understand client infrastructure and pain points.

Leo's approach is product-oriented and well-organized, allowing him to effectively navigate the complexities in product development and automate the processes. He possesses a hands-on technical aptitude, problem solving skills, enabling him to design and develop creative solutions tailored to meet business needs. He focuses on building highly effective and productive results, utilizing technical innovations, modern frameworks, and libraries.

In addition to his technical skills, Leo has extensive soft skills in collaborating with both individual contributors and large development teams. His leadership and guidance have significantly contributed to the success of product development throughout his career. He strives to demonstrate a better work ethic in order to improve both the product he's been working on and the team environment.

Core Skills

- **Programming Languages:** HTML, CSS, Vanilla Javascript, JavaScript, Typescript, Python, Java, R, GraphQL, PHP.
- **Frontend Frameworks:** React.js, React Native, jQuery, Next.js, Gatsby, Redux, Vue.js, VueX, Svelte, Nuxt, Angular 8, Angular 15.
- **UI Frameworks:** Bootstrap 4.0, Material UI, Chakra UI, Ant Design, Styled Component, Tailwind CSS, Ionic, Fluent UI.
- **Backend Frameworks:** Node.js, Express.js, Nest.js, Django, Fast API, Wordpress, NLP, TensorFlow, Salesforce, OpenAI API, LLM.
- **Testing Tools:** Mocha, Jest, Karma, Puppeteer, Cypress, Playwright, Selenium, Optimizely.
- **Development Tools:** Figma, Zeplin, Adobe XD, Docker, Sentry, Chrome extensions, VS Code, Eclipse, Lighthouse, Postman, Swagger.
- **Storage:** MySQL, MSSQL, SQLite, Oracle, PostgreSQL, MongoDB, Cassandra, Redis, Amazon DynamoDB, Azure Storage, Graph DB.
- **Cloud Services:** AWS Amplify, AWS Cognito, AWS IAM, AWS S3, Amazon Redshift, Amazon RDS, AWS Lambda, Azure Container, Azure functions, Firebase, Google Cloud, Google Analytics, Digital Ocean, Datadog, Sentry.
- **Soft Skills:** Attention to detail, Analytical skills, Verbal and written communication skills, Detail oriented, Interpersonal skills, Problem Solving, Quick learner

Education

- Bachelor of Science, Computer Science, University of Irvine, California, Apr 2013 - July 2017

Work Experience

Home Depot   **Oct 2021 to Feb 2025**
Software Engineer

Contributed to designing, developing AI driven new features on order analytics dashboard and marketing platforms by addressing technical debts and introducing new technologies following the product roadmap in an agile environment. This effort resulted in a 7.4% increase in customer growth and a 1.7 times improvement in website performance.

- Analyzed existing platform, identified critical flaws in customer facing platforms, and suggested new solutions using the latest technologies, Vanilla Javascript, ReactJS 18 based frontend software architecture to improve service uptime.
- Planned the product relaunch with scrum masters, product designers, and engineers on Jira, and enhanced verbal and written communication to reduce the overall development period by 6 agile sprints.
- Developed reusable UI components in Svelte application to optimize performance and bundling size by implementing migrations to sync the data source from WordPress to Prismic, thus reduced data retrieval time by 150 ms on average and followed accessibility (a11y) best practices.
- Enhanced critical CSS loading strategies using Linaria, improving First Contentful Paint (FCP) and Largest Contentful Paint (LCP).
- Developed and maintained dynamic, user-friendly web applications using React JS, optimizing frontend performance and improving page load times by 15% through efficient state management and component-based architecture.
- Implemented accessibility (WCAG) standards to ensure inclusivity in the chatbot interface.
- Provided analysis, review and documentation for staging, production issues by collaborating with customer success team and product manager thus contributing to the business problems and reducing software defects by 30% in CI/CD pipeline.

- Implemented multi-stage Docker builds, significantly reducing image sizes and accelerating pull times within CI/CD workflows.
- Provided ongoing support and troubleshooting for containerized services, RabbitMQ queues, and MongoDB clusters, ensuring high availability and optimal performance.
- Customized the AI application using LLM context and tool configurations from Langchain Basetools to upload Pandas Dataframe to Azure Blob storage thus reduced biases over 15%.
- Collaborated with cross-functional teams to define message schemas in RabbitMQ and document database schemas in MongoDB, driving consistent API contracts.
- Utilized GenAI and ML to conduct audits across many podcasts that clients advertise thus made the business to be competitive in their markets
- Configured MongoDB backups and restore procedures, ensuring data integrity and minimizing downtime in disaster recovery scenarios.
- Configured the repository that contains API and agent flow for custom Chatbots as the one-stop-shop LLM app to empower stakeholders by allowing them to add custom chatbots.
- Monitored container health using tools like Prometheus and Grafana, proactively addressing memory or CPU-related performance issues.
- Built highly performant microservices with FastAPI, leveraging its asynchronous capabilities and dependency injection system.
- Implemented guardrails to handle content filtering, moderation, and prompt design to ensure safe and reliable AI outputs
- Designed and managed Terraform-based infrastructure as code (IaC) to automate deployment and configuration management.

Technologies: JavaScript, TypeScript, Vanilla Javascript, React.js, Svelte, Next.js, React Native, Linaria, Redux, GraphQL, D3.js, Storybook, Accessibility, Jest, Python, Django, Node.js, FastAPI, GenAI, OpenAI, Chatbot, LLM, AI model, Firebase, NLP, OOP design, Containerization, AWS Lambda, AWS CloudWatch, Amazon ECS, AI/ML, Docker, Kubernetes, Integration testing

Medscape   **Dec 2019 to Nov 2021**
FrontEnd Developer

As a software developer at Medscape, contributed to designing and developing the provider web portal and patient-facing mobile application for telemedicine platform implementation. Responsible for setting up backend services and architected the frontend application and achieved a significant increase of 24% in telemedicine services, resulting in improved customer satisfaction rates.

- Planned to address technical debt of 25% in the agile development process across the virtual care platform, based on a deep analysis of the legacy platform, healthcare industry standards, data security and the implementation of the new UI design system.
- Designed effective plans to update the new UI design system using Material UI to spearhead its technical direction and provided consultation for the telemedicine platform by following SOLID software design principles.
- Collaborated with UI designers to establish design tokens in regular design reviews, reducing redundant work to ensure consistency while building scalable and reusable cross-platform component libraries.
- Collaborated with cross-functional teams to design and deploy interactive dashboards using Svelte, enabling real-time data visualization and improving decision-making processes
- Utilized Docker Compose and Kubernetes for container orchestration, enabling scalable, fault-tolerant microservice architectures.
- Utilized React Native CLI, Expo library to build an iPad and Android tablet to seamlessly connect patients, doctors, and health plans. It later extended its capability to have cross-platform support, such as web and Android tablets.
- Improved web accessibility by implementing semantic HTML, ARIA attributes, and keyboard navigation.
- Set up comprehensive unit tests and integration tests to perform user interactions on different mobile devices and covered 90% of tests that use Jest and Playwright in the Test driven development (TDD) environment
- Developed RabbitMQ consumers with acknowledgments and prefetch limits, achieving consistent processing rates even during traffic spikes.
- Engaged mobile app development, impacting 3,500+ nurses by enabling them to easily log their time. This involved complicated tasks such as photo taking, scanning, and identity verification built with React Native, Svelte, Redux and TypeScript.
- Built end-to-end AI-driven web platforms featuring user-facing Django/React front-ends, FastAPI-based microservices, and generative AI back-ends.
- Developed real-time data processing applications using PySpark and Kafka, enabling near real-time analytics and reporting for business-critical metrics by monitoring the application performance using Datadog.
- Utilized the SciscaCy package for running NLP pipeline that enabled it to extract drug names, their corresponding dosages from a large set of health record data thus enabling it to identify potential discrepancies and ensure adherence to established protocols.
- Optimized Golang services to reduce memory consumption by 20% and improve request processing speeds.
- Performed queries with Algolia, worked with their SDK, and created an autocomplete component to show the results of patient searches. This reduced search time by an average of 170 ms per request from Datadog traces

Technologies: HTML, CSS, NextJS, Svelte, Typescript, ReactJS, Redux, Webpack, Babel, Linaria, RESTful API, Go, GraphQL, Laravel, Nest.js, MERN stack, Python, Django,, MongoDB, SQL, Docker, OAuth 2.0, JWT, Amazon S3, Amazon SQS, SNS, AWS Cognito, AWS Cloudformation, Amazon Redshift, Linux, Cross-platform App Development, Datadog

DoorDash   **Feb 2017 to Dec 2019**
Full Stack Engineer

Played a pivotal role in the development and deployment of a customer experience platform for managing billing accounts, from initial proof of concept to a successful product launch, utilizing advanced frameworks. This platform streamlined business operations, enabling efficient management of customers (residential, commercial, and small businesses) and their energy products (electricity, natural gas). As a result, it contributed to a remarkable 12% growth in profits compared to the manual processes employed in the previous year.

- Established product development plan with the product owner, designers to set the product roadmap, short term, and long-term achievement to be developed from greenfield thus determining architectures, design patterns on the high level.
- Designed and customized authentication and authorization framework for web and mobile applications using Azure B2C for identity management services and streamlined the user authentication and authorization process.
- Implemented a centralized mailing server to manage all internal emails in a secure channel and provide an admin dashboard with real-time mailing status updates and stats charts using React.js, Flux, Web Sockets, D3.js, and Webpack.
- Built reusable, high-performance web components using Angular Material that contributed to a 20% decrease in development time for subsequent projects
- Participated in weekly code reviews and pair programming sessions to bolster the development team's overall efficiency and code quality for Angular, React.js and Node.js codebase in dev and staging environment.
- Created a shared/reusable, maintainable code with ReactJS component library of high-quality reusable 80 components following the site style guide and integrated add-ons such as documentation and additional testing tools with Storybook.
- Optimized page load performance by improving First Contentful Paint (FCP) and Largest Contentful Paint (LCP) metrics and improved 15% from the initial page loading..
- Developed RabbitMQ consumers with acknowledgments and prefetch limits, achieving consistent processing rates even during traffic spikes.
- Implemented event-driven architecture with AWS Lambda using Python, Java and Amazon S3, resulting in efficient handling of product details, account list file uploads and processing along with Pandas, Numpy library.
- Oversaw the execution of comprehensive development plans resulting in improved software efficiency and reliability and responded outages of the production issues and addressed customer feedbacks on time
- Worked closely with the infrastructure team to constantly update and patch all microservices so that the team could stay up to date with new technology such as GoLang API and security requirements to achieve high performance in distributed systems.
- Established fault-tolerant strategies for RabbitMQ, guaranteeing reliable message delivery and minimizing data loss in critical workflows
- Utilized various Node.js modules and libraries to optimize applications for maximum speed and scalability, resulting in a 20% increase in system performance and a 15% reduction in operational costs.
- Leveraged MongoDB aggregation pipelines for advanced data transformation, offloading complex logic from the application layer.
- Deployed and maintained serverless architecture using AWS services such as API Gateway, AWS Lambda, CloudFront and DynamoDB, resulting in a 26% reduction in infrastructure costs and a 37% increase in application performance.

Technologies: HTML5, CSS3, JSON, XML, Ajax, JavaScript, Vanilla Javascript, Typescript, Angular, ReactJS, NextJS, Bootstrap, SCSS, Flux, Redux, NodeJS, MERN, RESTful APIs, GraphQL, Python, Django, Salesforce Apollo Server, API Gateway, AWS Cloudformation, Azure Devops, Jenkins, CircleCI, Redis, JWT, APM, MongoDB, Sequelize, NoSQL, Jest, Unit Testing, GitHub actions, Azure DevOps, RabbitMQ

Venturi, Los Angeles, CA   **Feb 2014 to Jan 2017**
Freelance Developer

Worked as an individual contributor to build the web and mobile applications using advanced frameworks and libraries thus successfully launched 4 SaaS platforms and deployed 3 mobile applications on the App store.

- Spearheaded the frontend development using new frameworks such as React.js, Vue.js and AngularJS for startup company projects from greenfield to Proof of concept work.
- Solved technical problems in customer-facing web applications maintenance following industry standards to improve UI/UX and performance of SaaS platforms by implementing responsive design principles to ensure compatibility across various devices and screen sizes with Vue.js and Vuetify.
- Developed and maintained web applications for managing product information, managing employee efficiency, comparing product specifications, advanced product searching, and customer contests.
- Worked with JSON web tokens for authentication and authorization security configurations using Node.js and Express.js and MySQL and migrated from PHP / Laravel framework into Node.js, Postgres driven backend services thus improved efficiency.
- Developed unit tests for Java Spring Boot codebase, ensuring the reliability and stability of applications and reducing the occurrence of software defects by 14% and performed integration with an external web service system such as payment gateways
- Maximized code testability and maintainability on Facebook projects by strictly adhering to test-driven development (TDD) and updated python scripts to build data manipulation workflow, thus streamlined workflow by 11%
- Contributed to the development of in-house UI library to create ReactJS UI components that saved more than 120 hours of work by using Storybook to establish reusable modules and testing.
- Added features to the E-Commerce platform such as product review, rating, product filter and search based on Figma design and improved the performance for web pages and mobile applications
- Developed and maintained Android application using Kotlin, resulting in increased user engagement or improved app stability
- Optimized Amazon's CDN usage by streamlining the Angular JS asset delivery pipeline along with Jenkins, cutting costs by 10% without compromising application performance.

- Developed automation scripts using AWS Lambda and Python to automate routine tasks, reducing manual intervention and increasing efficiency by 25%.
- Conducted extensive testing and user feedback every month following Test driven development to address the issues and improve the code quality on frontend, backend thus implemented a highly demanding application that runs on cross platforms.
- Optimized the performance of the platform by adopting a message queuing system in Laravel, ensuring that applications load quickly and run smoothly for customers emails, tasks based on deep understanding of Laravel frameworks.
- Designed and implemented disaster recovery plans and backup strategies using AWS services such as S3, Glacier, and RDS snapshots, ensuring data integrity and availability.
- Skilled in writing clean, efficient, and testable Java code, utilizing best practices such as dependency injection and unit testing.
- Performed test fundamental user behavior and analyzed results without wasting much time or effort using built-in testing features and PHP Unit testing support such as phpunit.xml, thus avoided application errors and glitches by 20% from the legacy platform

Technologies: HTML, CSS, SASS, SCSS, PHP, Angular, Python, jQuery, Bootstrap, JSON, Web Accessibility, Adobe tools, ARIA, Ajax, Wordpress, Java, Spring Boot, JPA, MVC design pattern, Vanilla JavaScript, Vue.js, NodeJS, API Gateway, JWT, NoSQL, OAuth, Object oriented programming, Jenkins, Elastic Search, RESTful API, SQL, MySQL, PostgreSQL, Jest, Unit Testing