**Daniel Lopez**

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# **Summary**

* Results-driven Front-end Engineer with a robust seven-year track record in designing, developing, and optimizing web applications.
* Well-versed in the Software Development Life Cycle process, with expertise in Planning, Reviewing Specifications, Documentation, Scheduling, Design, Development, Testing, Implementation & Maintenance of apps.
* Expertise in the Implementation of MVC/MVVM Architecture, methodologies & Responsive Web Design techniques.
* Showcases proficiency across various programming languages, including Python, PHP, Go, JavaScript and TypeScript. Bring extensive experience with modern frameworks and libraries such as React.js, React Native, Django, FastAPI, Laravel and Next.js delivering scalable and maintainable web and mobile solutions.
* Skilled in developing and implementing RESTful APIs as well as GraphQL APIs.
* Specializes in front-end development with a focus on exemplary user experience while building sturdy back-end systems that ensure seamless data flow and service integration.
* Demonstrates in-depth knowledge in handling various databases like MySQL, PostgreSQL, Oracle, MongoDB, and Neo4J to maintain complex data infrastructures and integrity.
* Possesses a strong grasp of cloud technologies, with a history of deploying AWS, Azure, and GCP applications that prioritize performance, cost-efficiency, and scalability.
* Thorough unit testing of developed react components using Jest, Mocha, React Testing Library, and Enzyme.
* Used Jenkins, and GitHub Actions for continuous integration and test automation.
* Leveraged GitHub for source control, peer code reviews, and branch merges to master to allow for continuous delivery.
* Worked on Agile Scrum projects and attended Daily Scrum meetings, User Story review meetings, Sprint Review, and Retrospective meetings as part of Agile Methodology.
* Committed to maintaining high code quality standards through adherence to Agile methodologies, Scrum practices, and Test-Driven Development (TDD).

# **Skills**

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| Languages: | Python, Go, JavaScript, Typescript, PHP, HTML, CSS, SQL |
| Frameworks & Libraries: | React.js, Node.js, Django, FastAPI, Gin, GORM, Testify, Laravel, TensorFlow, Pandas, Numpy, Selenium, Express.js, Next.js, Angular, Redux, Apollo GraphQL, jQuery, Ajax, Firebase, SASS, LESS, D3.js, Redux Toolkit Query |
| Databases: | MySQL, SQL Server, PostgreSQL, Oracle, MongoDB, DynamoDB, CosmosDB |
| Tools: | Jira, Trello, GitHub, Heroku, Docker |
| Others: | Webpack, GraphQL, ESLint, RESTful API, ArcGIS, Geological Mapping |
| Clouds: | AWS (Lambda, CloudWatch, CloudFormation, DynamoDB, SNS, SQS, EC2, S3, Kinesis, CloudFront and so on), Azure (VMs, Azure functions, Azure DNS, Azure App Service) |
| Methodologies: | SDLC, Agile, Scrum, TDD |
| Operating Systems: | MacOS, Windows, Linux |
| Soft Skills: | Customer focus, Attention to detail, Strategic thinking, Taking initiative, Continuous Learning |

# **Experience**

**Senior Software Engineer**

## uShip, Remote

Jan 2024 – July 2024 (7 months)

* Transformed a legacy C# monolith system into a modern serverless architecture using AWS Lambda, TypeScript, and the Serverless framework.
* Utilized DynamoDB as the primary database for its scalability and performance in the serverless stack.
* Used ElectroDB library for efficient handling and interaction with DynamoDB.
* Actively took part in the migration of a monolithic admin system to a new stack with React.js for the frontend and TypeScript and Node.js for the backend, hosted on AWS Lambda.
* Implemented Apollo GraphQL for seamless API communication between the admin frontend and backend.
* Designed and implemented data models to efficiently manage and retrieve large datasets.
* Implemented SQS for smooth message processing, ensuring reliable and scalable message queuing.
* Utilized Dead Letter Queues (DLQ) to handle message failures, ensuring safe and reliable message processing.
* Integrated PagerDuty for robust alerting and incident management, enhancing system reliability and response times.
* Acted as the Subject Matter Expert (SME) for carrier verification integrations, enhancing customer success and service reliability.
* Integrated Okta for admin authentication using OAuth, ensuring secure access control.
* Managed JWT tokens for secure and stateless authentication across the platform.
* Implemented Cloudflare as a Content Delivery Network (CDN) to enhance global accessibility and reduce latency. Configured and managed Cloudflare settings using Terraform, streamlining infrastructure as code practices for efficient provisioning and scalability.

**Senior Full Stack Engineer**

## IronNet, Remote

Oct 2020 – Nov 2023 (3 years 1 months)

* Developed and deployed an event-organizing app to offer quick help to hosts to organize little events using Next.js and Firebase.
* Developed a mobile application using React Native for a client in the healthcare industry. The app allowed users to track their daily medication intake and receive reminders for upcoming doses. Implemented Redux (Redux Toolkit Query) for state management.
* Architected and implemented a scalable GraphQL API service for a social media analytics platform, leveraging Go and its frameworks Gin and AWS Lambda, and Amazon DynamoDB to handle large volumes of data with minimal latency.
* Led the migration of a monolithic e-commerce application to a microservices architecture, using Go, Gin, GORM, PostgreSQL, Docker, and Kubernetes on Google Cloud Platform to improve the system's resilience and scalability.
* Implemented TDD using Testify for Go Microservices.
* Developed a customer portal using React and GraphQL, enabling account management, order tracking, and personalized recommendations.
* Collaborated with the design team to create a modern and intuitive user interface with React components.
* Utilized GraphQL to efficiently fetch and update data from backend systems, enhancing application performance.
* Implemented real-time updates for order tracking using GraphQL subscriptions, improving the user experience.
* Developed and maintained scalable web applications using Python and Django, streamlining backend processes for improved performance and security.
* Built and optimized RESTful APIs with FastAPI, reducing response time by 20% and improving overall system efficiency.
* Played a pivotal role in creating an interactive geological mapping tool for environmental research, employing TypeScript and Esri ArcGIS to render complex geospatial data on the web.

**Full Stack Developer**

## Mckinsey & company, TX

Jul 2018 – Oct 2020 (2 years 3 months)

* Developed a full-stack web application for a food delivery startup using React.js for the frontend and Node.js combined with Express.js for the backend, hosting the service on Heroku and implementing continuous deployment via GitHub.
* Engineered a progressive web application (PWA) for a retail company, leveraging React and Firebase to create an offline-capable shopping experience that resulted in a 40% increase in mobile conversion rates.
* Implemented end-to-end features for a collaborative project management tool, integrating real-time updates using WebSockets and React.js in the front end with an Express.js backend, managed using Jira and Trello for task coordination.
* Played a lead role in a cross-functional team that transitioned a monolithic PHP application to a microservices architecture, utilizing Docker containers orchestrated on AWS ECS for improved scalability.
* Revamped an online educational platform’s user interface with a focus on accessibility, employing React.js and styled-components to craft a responsive and inclusive design, deployed onto Azure App Service.
* Constructed a GraphQL API for a financial analytics service, providing tailored endpoints that allowed for more efficient data retrieval, and used Apollo on the front end to interface with the API.
* Integrated TensorFlow models into production environments for predictive analytics and machine learning applications, enhancing decision-making accuracy.
* Utilized Pandas for data manipulation and analysis, leading to a 30% improvement in data processing speed in key projects.
* Automated browser testing and data scraping using Selenium, reducing manual data collection efforts by 50%.
* Led a team to migrate legacy applications from PHP and Laravel to a modern Python/Django stack, improving maintainability and reducing technical debt.
* Collaborated with cross-functional teams to integrate AI/ML solutions with TensorFlow, driving insights and automation in various business processes.
* Coordinated with a QA team to establish a robust TDD environment for a new feature in an e-commerce platform, ensuring all code committed adhered to the highest standards, with continuous integration set up in Jenkins.

**Frontend Developer**

## Unique Software Development, TX

Nov 2016 – Jun 2018 (1 year 7 months)

* Played a key role in the redevelopment of an e-commerce site's front end using React.js and Bootstrap, which led to a 30% increase in user engagement through improved UX design and performance.
* Integrated Google Maps API into a real estate platform's listing page using Ajax and React.js, enabling interactive property searches based on geographical locations.
* Collaborated on the redesign of a major news outlet’s website, implementing responsive layouts with HTML5, CSS3, and modern JavaScript practices, which enhanced mobile accessibility and reader retention rates.
* Created dynamic, data-driven charts, and graphs for a fintech application's dashboard using React and the D3.js library, enabling users to visualize their financial data more effectively.
* Contributed to a multi-disciplinary team for the launch of a social networking app, focusing on establishing robust client-side validation and interactions using TypeScript and React.js.
* Developed a feature-rich interactive quiz component for an educational technology platform, employing React.js and integrating with RESTful APIs to fetch and post quiz data efficiently.
* Spearheaded the implementation of a real-time chat application for a customer support tool using Angular and integrating with server-sent events (SSE) to provide a seamless user experience.
* Optimized the front end of a travel booking website for performance, achieving a 20% quicker load time through code splitting and lazy loading of JavaScript components using Webpack.
* Automated front-end testing for a project management application by setting up a Jasmine-based testing framework, leading to early detection of issues and maintaining high code quality.
* Implemented end-to-end testing for web applications, using Selenium for automated browser tests, ensuring high code reliability and reducing bugs.
* Optimized database queries in Laravel applications, leading to a 15% performance boost in e-commerce platforms.

# **Education**

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| **Concordia University Texas, TX** |  |
| Bachelor's degree, Computer Science    **Hack Reactor Bootcamps** | | Sep 2012 - May 2016 |
| Computer and Information Sciences and Support Services | | Sep 2019 - Nov 2019 |

# **Certification**

[AWS Certified Cloud Practitioner](https://www.credly.com/badges/07981116-ef6a-4f41-8073-270585d6ad70/linked_in_profile)

[AWS Cloud Technical Essentials](https://coursera.org/verify/professional-cert/Z2FPQWY7G8HN)

AWS Machine Learning [Foundations](https://www.credly.com/badges/832ec56c-6ca7-4264-914c-9429c4f2713c/public_url)

[Microsoft Azure Fundamentals](https://learn.microsoft.com/en-us/users/dlodmoney/credentials/f907fbaae8d1b106)

[Meta Front-End Developer](https://coursera.org/verify/professional-cert/Z2FPQWY7G8HN)

[Frontend Developer (React) Certification](https://www.hackerrank.com/certificates/1a09a73a243c)

[Software Engineer Certification](https://www.hackerrank.com/certificates/b610b69079aa)

[Problem-Solving Certification](https://www.hackerrank.com/certificates/c2db77c3ae20)

[Rest API Certification](https://www.hackerrank.com/certificates/93ae4e3e825c)

[JavaScript Certification](https://www.hackerrank.com/certificates/5ee73f55fbe0)

[Advanced SQL Certification](https://www.hackerrank.com/certificates/4ba7a5830d17)