Joel Leon

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Software Engineer

WORK EXPERIENCE

Full Stack Engineer - Apr. 2024 - Present

Blitzrocks - *Remote*

Developed and enhanced a B2B SaaS financial commission platform utilizing **.NET, gRPC, MongoDB, Node.js, RabbitMQ, Azure and Angular** to optimize performance and user experience.

- Designed the architecture and developed a new microservice for payment handling using fintech's Inswitch API.
- Implemented standard native elements from **Microsoft Extensions**, moving away from Autofac and reducing code repetition by **35%**.
- Mentored new team members through code reviews, architectural walkthroughs, and task delegation to accelerate onboarding.
- Leveraged .NET and **gRPC** to optimize inter-service communication within a microservices architecture.
- Enhanced codebase efficiency by implementing reusable **git submodules** across multiple repositories, avoiding code repetition.
- Ensured code quality by leveraging Test Driven Development with **NUnit & Playwright**.
- Implemented a scalable PDF report generation system for large datasets using **.NET, Razor and iText.**
- Refactored database query logic for embedded document retrieval, optimizing performance for high-volume data operations.
- Addressed critical bugs and delivered incremental feature improvements through iterative development cycles in a Kanban / Agile methodology delivering **30+ features and 35+ fixes**.
- Migrated Angular applications across multiple major versions while maintaining compatibility with UI libraries such as **Material** and **PrimeNG** and adopted modern framework features.
- Collaborated with business analysts to translate client requirements into technical solutions and deliver new platform features, improving application traffic by ~**40%**.

Full Stack Engineer - Jul. 2023 - Apr. 2024

Penstock Consulting - *Remote*

Engineered backend and frontend solutions in Angular and the C# .NET suite.

- Implemented a role-driven system to enforce secure data access and maintain application integrity.
- Automated email notifications to users, allowing seamless integration into the platform.
- Partnered with UX designers to implement responsive Angular components reducing user-reported friction by 60%.

Backend Engineering Intern - Jun. 2022 - Jul. 2023

UANL - *Mty, Nvo. León*

Developed multiple backend applications on a serverless architecture using Node.js with Typescript and the Google Cloud Platform in an agile environment.

- Engineered real-time database synchronization using GCP Pub/Sub and event-driven cloud functions, maintaining data consistency across distributed systems.
- Enforced code reliability by implementing Test-Driven Development (TDD) across core application modules.
- Designed scalable Firestore document architectures supporting dynamic data structures for evolving business requirements.
- Established type-safe data workflows using Zod validation pipelines, preventing schema inconsistencies across services.

Side Projects

Google Partner Startup Script Implementations - 2023

Skills: TypeScript, Angular, RxJS/NgRx, Google Maps API, Google Apps Script, REST APIs

- Engineered address management system using Google Maps Places API, implementing autocomplete suggestions and static map snapshots for location verification.
- Integrated Google Apps Script automation for calendar management and document generation, reducing manual workflows and immediately impacting **100+ businesses** and its employees**.**
- Developed reactive form handlers with RxJS observables and NgRx state management for complex scheduling scenarios.

Anonymous Professor Rating App (RateU) - 2025 · <u>Visit here</u>

Skills: TypeScript, React.js, Vite, Express, Node.js, Mocha, Zustand (Redux like library), REST APIs

- Developed a multi-dimensional rating system leveraging modern frameworks & technologies to enhance user experience and data quality.
- Designed scraping scripts for collecting reference data to provide a minimum standard value .
- Implemented security features including CAPTCHA, rate limiting, and Cloudflare integration to protect user anonymity and platform integrity.

Education

Bachelor's Degree in Computer Science - 2025

Universidad Autónoma de Nuevo León

Algorithmics Club Head Coordinator & Instructor - 2025

At Universidad Autónoma de Nuevo León

- Curated problem-solving syllabus focusing on algorithm problems and OmegaUp patterns and real-world system design applications.
- Coordinated regional programming competitions, motivating the attendees to participate, handling logistics and leadership.
- Mentored attendees on interview preparation strategies and open-source contribution pathways.
- Collaborated with faculty advisors to align club activities with ACM-ICPC competition standards.

PROFESSIONAL SKILLS

- **TypeScript**
- **JavaScript**
- **Angular**
- **Node.js**
- **Express**
- **React**
- **CSS**
- **Sass**

- **RxJS**
- **REST APIs**
- **MSSQL Server**
- **MongoDB**
- **gRPC**
- **Google Cloud Platform**
- **Git**

- **RabbitMQ**
- **Linux systems**
- **Test Driven Development**
- **Mocha & Playwright**
- **Agile**
- **English (C2)**

Certificates

- <u>**React.js, Next.js & Redux**</u>
- <u>**Advanced CSS and SASS**</u>