

Matias Tejada Astaburuaga

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EXPERIENCE

LegalAtoms

Semi Senior Full Stack Engineer

Sep 2025 – Present

Seattle, WA

- Delivered significant performance improvements across the application, reducing webpage load times by 77% (intelligent caching), backend startup time by 90% (lazy loading), and test execution time by 73.5% (optimized cleanup algorithms)
- Created an AI-powered tool to automatically generate structured forms from legal document PDFs, extracting rich metadata (titles, descriptions, question types) and reducing processing time from $O(n)$ to $O(1)$ through parallelized page-level AI calls
- Created a DevOps patching tool that streamlines CI/CD workflows by enabling environment-specific Git branch patching and seamless deployments through AWS Elastic Beanstalk and CodeBuild

KLog.co

Full Stack Engineer

Sep 2024 – Aug 2025

Santiago, Chile

- Led the research and integration of a bank's payment processor API, enabling secure and compliant user billing workflows
- Designed the architecture and prompt engineering strategy for an AI-powered agent system that parses email threads, extracts key action items, and autonomously generates follow-up emails and notifications
- Built a history tracking interface with infinite scroll fetching and advanced search capabilities to monitor and review granular data changes efficiently
- Integrated HubSpot quotes, contact, and company updates via Zapier's API with WebSocket-based notifications, enabling real-time synchronization and automatic PDF attachments
- Developed an algorithm to convert dense HTML data structures, including complex tables, into accurate plain-text formats for AI processing

EDUCATION

Purdue University

Bachelor of Science in Computer Science (GPA: 3.46/4)

Aug 2019 – May 2024

West Lafayette, IN

Relevant Coursework: Python Programming, Object-Oriented Programming, Discrete Mathematics, C Programming, Computer Architecture, Data Structures and Algorithms, Systems Programming, Compilers, Computer Security, Operating Systems, Computer Networks, Embedded Systems, Advanced Memory Allocation

SKILLS

- **Programming:** HTML/CSS, JavaScript/TypeScript, Ruby, Python, Java, C/C++, ARM/x86 Assembly
- **Frameworks:** React, Angular, NextJS, NodeJS, ExpressJS, Ruby on Rails
- **Databases/APIs:** PostgreSQL, DynamoDB, MongoDB, GraphQL, Prisma
- **Cloud:** AWS, Azure, Terraform, Pulumi, SST
- **Tools:** Git, GitHub Actions, Linux, Docker, DBeaver, Postman, Figma, Langfuse, HubSpot
- **Languages:** Spanish (C2), English (C2), Japanese (N4)

PROJECTS

Social Media Website | *HTML/CSS, NodeJS, MongoDB, AWS*

- Developed a full-stack web application to implement a social media service where users can create posts or comments, add friends, and modify their profiles
- Implemented a REST API for the frontend that allows CRUD operations on the user database
- Configured an AWS EC2 server for application deployment using Nginx for HTTP reverse proxy and PM2 for load balancing

Fan Controller | *Python, Kotlin, XML*

- Designed and built an embedded system that reads inputs from a digital thermometer and controls a fan's speed accordingly using Pulse Width Modulation for real world dynamic cooling capabilities