

Matias Tejeda Astaburuaga

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EXPERIENCE

KLog.co

Full Stack Engineer

Sept 2024 – Present

Santiago, Chile

- Led the research and integration of a bank's payment portal API for secure user billing
- Designed and implemented a user-friendly history interface to track data changes, featuring scroll fetching and advanced search capabilities
- Leveraged Zapier's API to connect HubSpot quotes to the platform, enabling seamless attachment of quote documents in PDF format to the database
- Updated the design system with custom React components with tailored CSS styling, adhering to Figma requirements and improving UI consistency
- Developed an algorithm to parse dense HTML data such as tables into plain text equivalents, facilitating accurate and efficient processing by AI

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, Python, Java, C/C++, ARM/x86 Assembly
- **Frameworks:** React, NextJS, NodeJS, ExpressJS
- **Databases/APIs:** PostgreSQL, MongoDB, GraphQL, Prisma
- **Cloud:** AWS, Azure, Terraform, Pulumi, SST
- **Tools:** Git, GitHub Actions, Linux, Docker, VSCode, 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
- Developed an Android application in Kotlin and XML to implement IoT functionality and wireless access to the fan controller using TCP/IP socket communication

Packet Analyzer | C

- Developed a packet analyzer for the Linux operating system that intercepts raw packets from the Network Interface Card and displays relevant information in real time
- Coverage includes each layer of the TCP/IP model such as Ethernet headers, ARP and IPv4 headers, and TCP, UDP, and ICMP headers

Custom UNIX Shell | C++, Lex, Yacc

- Developed an UNIX shell that implements a terminal command line which parses and executes user input
- Bonus features include handling environment variables, nesting a child shell within a parent shell, and expanding wildcards using regular expressions and recursion