Matias Tejeda Astaburuaga

matiascode.com | mtejeda@alumni.purdue.edu | linkedin.com/in/matiascode | +56 9 3343 1429

EXPERIENCE

KLog.co   **Sept 2024 – Present**
Full Stack Engineer   *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   **Aug 2019 – May 2024**
Bachelor of Science in Computer Science (GPA: 3.46/4)   *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, 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