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 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 **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, Python, Java, C/C++, ARM/x86 Assembly
- **Frameworks:** React, NextJS, NodeJS, ExpressJS
- **Databases/APIs:** PostgreSQL, MongoDB, GraphQL, Prisma
- **Tools:** Git, Linux, AWS, Docker, VSCode, Scrum, DBeaver, Postman, HubSpot, Figma
- **Languages:** Spanish, English, Japanese

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