Pedro Criado

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EXPERIENCE

Amazon | Software Development Engineer Intern

Austin, TX *May 2024 – July 2024*

- Designed and implemented a video guide section in the International Sellers App, enabling 25,000+ users to access tailored instructional content using Java with an Amazon proprietary framework similar to the Sprint Framework.
- Learned implementation and use cases for AWS's full suite of tools and services.
- Collaborated with cross-functional teams to deliver end-to-end software development processes, including quality assurance and security reviews.

PROJECTS

Digital Data Recorder | *C++, Linux, Docker, CMake*

- Served as Project Manager, leading a team of 7 in developing a secure digital data recorder for military applications, sponsored by the Department of Defense.
- Architected and implemented AES-256 and RSA encryption/decryption pipelines to secure telemetry data in accordance with stringent DoD security standards.
- Engineered TCP, UDP, LLC, and Telnet–based data transmission protocols to secure and bolster inter-process communication reliability.
- Collaborated with military stakeholders to meet strict performance and security requirements, delivering a solution for real-time data processing.

CryptoRace | *Express.js, Node.js, MongoDB, Redis, GraphQL, TypeScript*

- Produced a competitive cryptography web application where users compete with other users to decode a ciphertext the fastest.
- Integrated real-time multiplayer functionality using WebSockets, with the best time being updated to the leaderboard using Redis caching.
- Integrated a combination of GraphQL and REST APIs for efficient data fetching and user interaction.

Pegasus Parking | *Express.js, Node.js, MongoDB, JavaScript, React*

- Developed a parking guidance application to address campus parking challenges, enabling students and visitors to locate garages based on permits and proximity across 14 locations.
- Created user authentication using Passport.js with OAuth 2.0, enabling secure connection to the application.
- Implemented the Google Map API to calculate and display optimized garage recommendations, improving navigation efficiency for users.
- Built a scalable back-end capable of processing 6,000 user requests per minute using MongoDB and Express.js.

SimpleC Compiler | *C, x86*

- Created a Compiler that compiled C code using the x86 assembly language.
- Gained expertise in compiler theory, including lexical analysis, parsing, semantic analysis, optimization, and code generation.
- Added support for control-flow constructs (if, if-else, and while loop) and operators (==, !, &, *), significantly enhancing the compiler's functionality.

SKILLS

Programming Languages: C/C++, Java, Python, MySQL, JavaScript, TypeScript, PHP, HTML, CSS, x86
Frameworks and Technologies: Node.js, Express.js, MongoDB, Redis, GraphQL, Django
Developer Tools: Git, Linux, Jira, AWS

EDUCATION

University of Central Florida

Orlando, FL *August 2022 – August 2025*

Computer Science (BS) | GPA: 3.83
Courses: DSA, OOP, Operating Systems, Cryptography, Systems Software