

Jose Martinez-Sagastume

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EDUCATION

University of Maryland, Baltimore County

B.S. in Computer Science (Cybersecurity Track); B.S. in Information Systems

Expected Aug. 2029

Catonsville, MD

EXPERIENCE

VITA Tax Preparation Volunteer

University of Maryland, Baltimore County

Feb. 2026 – Apr. 2026

Catonsville, MD

- Managed client intake at front desk. Verified physical IDs and SSN cards to prevent fraud, and ensure a smooth process.
- Prepared federal and state income tax returns for low and moderate-income taxpayers, identifying eligible tax credits to maximize refunds.

Systems Engineer Intern

Verizon Communications

July 2023 – Aug. 2023

Arlington, VA (Remote)

- Developed a Bash version control utility to automate backups of system scheduling files and enable quick rollback
- Built analytics dashboard with leaderboard using React to track and reduce open ticket counts

PROJECTS

Self-Hosted Homelab | *Docker, Nginx, Debian 12*

Aug. 2023 – Present

- Built and maintained self-hosted infrastructure on repurposed hardware serving 13+ services including Gitea, Nextcloud, and Jellyfin
- Configured Docker containers, reverse proxies, and automated backups to ensure service reliability
- Hosted GPATrack backend and personal projects, managing SSL certificates and network security
- Hardened security using iptables, SSH key authentication paired with hardware key, and principle of least privilege

CarTracker | *C++, libcurl, Node.js, Vite, Prisma (PostgreSQL), React, Express*

July 2025 – Sept. 2025

- Developed C++ daemon to collect Wi-Fi signal data and transmit it over public hotspots
- Designed full-stack tracking platform using Prisma ORM and Google Geolocation APIs to triangulate location from Wi-Fi data with up to 10m precision
- Optimized Raspberry Pi 3 A+ for power efficiency, creating a \$45 location tracker with real-time web dashboard

GPATrack | *React Native, Typescript, Swift, Node.js, Express.js, Docker*

Aug. 2023 – Jan. 2025

- Built and deployed mobile app for 900+ users with real-time grade monitoring and grade simulation
- Wrote SOAP API parser to handle missing or malformed data from school systems
- Created self-hosted Node.js/Express backend to scan for grade changes and send push notifications via APNS
- Implemented weighted GPA calculation and assignment filtering to provide detailed academic insights

CERTIFICATIONS

GIAC Security Essentials (GSEC) | *SANS Institute*

May 2024

GIAC Foundational Cybersecurity Technologies (GFACT) | *SANS Institute*

Sept. 2023

Google Cybersecurity | *Google*

Jan. 2026

Adobe Certified Professional | *Visual Design (Photoshop) & Graphic Design (Illustrator)*

2024

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C++, Swift, Java, Python, Lua, Bash, SQL (PostgreSQL, SQLite)

Technologies: React, React Native, Expo, Node.js, Express.js, Vite, Prisma ORM, OpenGL

Developer Tools: Git, Docker, Linux, Gitea, CMake

Libraries/APIs: libcurl, drizzle ORM, SOAP, REST