

Alec Mendiola

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Computer Science Engineering (B.S.) – University of California, Merced (Fall 2019)

TECHNICAL SKILLS

C++	ReactNative	MySQL	Git
Python	PHP	SQLite	Symantec Ghost
Java	HTML	Firebase	Faronics Deepfreeze
JavaScript	ROS	Linux	Jira

PROFESSIONAL EXPERIENCE

Firmware Engineer Intel/Solidigm

(September 2021-October 2023)

- Designing, creating, & unit testing new features for Gen4 SSDs
- Debugging internal & customer issues in Gen3 SSDs using debugger, logs, and traces.
- Implementing firmware building structure in Gen4 SSDs for new firmware images
- Oversaw validation for new Gen3 SSD product into production
- Implementing firmware versioning for both internal and customer use
- Contribute to team design meetings for new features
- Actively participate in sprint stand ups and backlog grooming
- Reviewing team members' pull requests into production
- Documentation of features created by myself and my team by providing detailed descriptions and graphs

Software Engineer 1

Colsa Corporation | Datalink Gateway
(March 2020-September 2021)

- Top Secret Security Clearance
- Agile Software Development Environment
- Cipher Development & Bit Manipulation
- Debugging & Unit Testing Multithreaded Programs
- Porting Visual Studio projects from older platform toolsets
- Tool development (Hex Editor, C++ JSON Validator, Satellite API)
- Creating GUI through MFC
- Maintaining separate codebases through both DTR bug fixes and further development
- Independent tasking for additional features
- Powershell Scripting

PROJECTS

Mobile Application for Moves Training Team

- Mobile App featuring user location tracking, virtual check-in system, user statistic tracking, calendar event sign ups, and event creation.
- UC Merced's Innovate to Grow Mobile App Challenge Winner
- Developed using Javascript, Firebase, ReactNative, CSS

Advanced Encryption System (AES) Implementation

- Implementation of AES that could encrypt and decrypt messages.
- Developed using C++

Game of Thrones Database Website

(<http://gameofthroneswebzone.x10host.com/>)

- Website featuring a queryable database of characters and locations from HBO's Game of Thrones.
- Developed using HTML, CSS, PHP, MySQL

Discord Weather Bot

- Bot for Discord that gathers weather information for a user based on their locations as well as providing the top weather-related news story of the day.
- Developed using Python, Yahoo Weather API, News API

RELEVANT COURSEWORK

Robotics	Operating Systems
Algorithm Design and Data Structures	Computer Graphics
Computer Architecture	Database Systems
Intro to Artificial Intelligence	Intro to Object Oriented Programming