

DEREK JAMES HERNANDEZ

(512) 736-4600 | hernandez.derek19@outlook.com

LinkedIn:// [derekhernandez19](#) | GIT: [HernandezDerekJ](#)

EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics

Texas State University – San Marcos, Texas

Graduation Date: August 2019

Associates of General Studies in Liberal Arts

Austin Community College – Austin, Texas

Graduation Date: May 2016

RELEVANT COURSEWORK

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|-----------------------------|--------------------------------|--------------------------|
| • Software Engineer Project | • Computer Networks | • Operating Systems |
| • Computer Security Project | • Computer Architecture | • Intro to Data Mining |
| • Human Factors Project | • Data Structures & Algorithms | • Object-Oriented Design |

TECHNICAL SKILLS

- Software Language: ARMv8, C, C++ (11-17), C#, Java, JavaScript, MIPS, PHP, Python (2 - 3), Basic SQL, Swift.
- Software: Atom, Blue J, CLion, Eclipse, Github (GIT), Netbeans, Xcode, IntelliJ IDEA, Pycharm, Visual Studio
- Skills: Agile/ Scrum Methodologies, API Rest/Soap, Scripting, Calculus I/II/III, Cisco Firewall, Debugging, Testing, Discrete Math, Data Structures & Algorithms, Linux, Machine Learning, MacOS, Microsoft Office, Model-Driven Development, Probability & Stats, Program Life Cycle, TCP/IP/DNS fundamentals, Windows, Wireshark, XML/JSON

PROJECTS

- **Mars Rover Challenge– (Python, GIT, JSON)** **February 2021 – March 2021**
 - Recent challenge that will read a text file with locations and coordinates and navigate a rover along path, then export every location to a REST API ready JSON file.
- **Java Auto Scheduler – (Java, Maven, GIT, Slack)** **January 2019 – May 2019**
 - Program built from requirements that utilizes custom API's to schedule courses for up to 5 students. The project is Java based and required the use and understanding of GIT, Maven, JSON, XML and Slack to complete.
- **Operating Systems Projects – (Advance C++, Pipeline)** **May 2019 – August 2019**
 - Prompted to simulate in C different aspects of an Operating System. Mutual Exclusion, Pipeline and Child-Parent Pipe. Course was an 8-week course. Each part of the project was given at max one week deadline.
- **Intro to Data Mining - (Swift, REST API)** **January 2019 – May 2019**
 - Created an app that sent a POST and GET request to a REST API and display the data on an IOS App.
- **High End Media Player – (GIT, UML, Slack)** **May 2018 – August 2018**
 - Group-based project, planned from an Idea to a full Software Design Specification (SDS). Containing UML diagrams, Test Cases/Scenarios and mock interfaces.
- **Firewall Project – (Cisco Firewall, Wireshark)** **August 2018 – December 2018**
 - Computer Security project that required the ability to calculate IP/DNS addresses to set up a resembling Cisco Firewall, then manipulate it to break through the firewall.
- **RAM Script Project - (Shell Scripting, C)** **August 2018 – December 2018**
 - Worked in a group to calculate the correct hex memory to override RAM from a partial memory manipulation script.
- **Aircracking Project - (Shell Scripting, Wireshark)** **August 2018 – December 2018**
 - Run through the process of capturing enough packets to crack the passcode to the internet.
- **Human Factors Project - (UML, Volere)** **August 2018 – December 2018**
 - Create a website using Wix builder, that will simply ask a user a question. While following Volere standards/requirements, in addition to being friendly, engaging, simple and appealing.

WORK EXPERIENCE

Footwear Associate - Academy Sports and Outdoors

May 2016 – November 2016

- Assisted 50+ customers daily, efficiently work with team to organize merchandise, update database with current stock. Commended by management for communicating clearly and efficiently with customers and team.

Maintenance - Round Rock Independence School District

May 2014 – August 2014

- Repaired broken or damaged furniture either alone or with a partner. Delivered new or repaired furniture to desired school within School District. Update schools' catalog of available furniture (desks, chairs, boards, carts).