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Andres Ruiz

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Summary

Looking to dive deeper into my passion of software engineering. I enjoy learning new technologies and releasing my creative aspect into code. Whether it's working on the backend or frontend, or software I'll relish the time spent solving problems.

Technical Skills

Languages: JavaScript , C++, C, Python, Verilog, REST API, HTML5, CSS3, Excel VBA
Technologies: React.js, Express.js, Node.js, Git, MongoDB, Postgres, jQuery, ShopifyAPI

Experience

Valtra Inc. Aug 2020 – Jan 2023
Data Analyst Intern *Santa Fe Springs, CA*

- Coded a full stack **PERN** site hosted on **Azure** to automate shipping with **GRAPHQL** and **RESTAPI** saving an 1hr of inputting daily
- Designed a Frontend to enter Shopify orders through **React** to **Node**/**Express** Backend w/ **GRAPHQL**
- Saved a backup of company products using **PostgreSQL** from Shopify API daily
- Designed a **Python** Selenium app to input 100+ orders/day from a Shopify CSV to legacy app to save over $1000
- Organized Tadabase database with Excel Power Query + VBA for production and CNC tracking to improve efficiency

Projects

The Odin Project | *React.js, Express.js, Node.js, MongoDB*

- Completed multiple projects to perfect the basics of Front End development with **React** and **HTML**
- Worked on perfecting backend capabilities with Node.js, **Express.js**, and **MongoDB** projects with **REST API**

NASA Student Launch, Cal Poly Pomona | *Python using Raspberry Pi*

- Designed and printed a payload to absorb impact in **Solidworks** made with engineering filaments after ejection from rocket
- Programmed payload to auto level, capture a panoramic picture and upload autonomously with **Python** using **Linux scripts** on Raspberry Pi

ASME Student Design Competition | *C++ on Adafruit board - Team Lead*

- Designed a robot on **Solidworks** to pick up 0.5kg weights on a 1.5V battery created with Carbon Fibre
- Programmed robot using **C++** on Adafruit itsybitsy and external motor drivers

ULA Student Intern | *ArduPilot - Team Lead*

- Designed a foldable 4" drone using Autodesk Inventor to fit inside a 4" cylinder tube on a ULA Rocket
- Assembled electrical components (flight controller, GPS, etc.) to suit communication and autonomous needs operating under FCC regulation with long-range capability to provide mission details to home base
- Programmed using Mission Planner to fly drone autonomously to coordinates after ejection from rocket

First Robotics Club | *Java on Embedded board - Team Lead*

- Led programming team using **Java** to perform manual and autonomous movements using a **PID algorithm**
- Led design team to manufacture a robot using **Autodesk Inventor** with CNC mill and power tools

Education

California State Polytechnic University, Pomona Expected December 2024
Bachelor of Science in Computer Engineering *Pomona, CA*

- **Relevant Coursework:** Data Structures and Algorithms (C++), Operating Systems, Microcircuits, C, Verilog