

# AUSTIN STOCKWELL

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[Website Portfolio](#)

[LinkedIn](#)

[GitHub](#)

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**SKILLS** Bash, C, C++, C#, CSS, HTML, Javascript, MySQL, Python, PHP, Django, Git, Grafana, .NET, Tableau, Wordpress, Xamarin

## EDUCATION

**Purdue University**

2014 - 2017

*B.S. Computer Engineering Technology*

## CERTIFICATIONS

**Federal Aviation Administration**

2018 - 2019

- Commercial Pilot Certificates (SEL & MEL)
- Certified Flight Instructor Certificate (SEL)

## PROJECTS

**Automated Trading System | Python, MySQL, HTML, CSS**

*Automated cryptocurrency trading bot & financial analysis tool*

- Wrote custom Python modules to retrieve **JSON** market data using **Binance REST API**
- Designed and implemented **MySQL database** for storing of critical real-time market data
- Visualize data on front-end web application running **Flask Framework** on a Raspberry Pi server

**Finance Database & Graphical Interface | C#, Python, MySQL**

GUI: [GitHub](#) | [Documentation](#)

*Database tracking past and future financial trends*

MySQL: [GitHub](#) | [Documentation](#)

- Designed database **Entity-Relationship Diagrams** and wrote **Views** and **Triggers** in MySQL
- Streamlined data entry by creating **GUIs** in **C# (.NET Windows Forms)** and **Python (Tkinter)**
- Created **BI Dashboards** for data visualization and analysis with **Grafana**

**MIDI Controller | C++, Circuit Design, Embedded Systems**

[GitHub](#) | [Documentation](#)

*Musical hardware device that controls external synthesizers in real-time*

- Sampled analog voltages in real-time and transmitted serial MIDI data over 5-pin cable and **USB**
- Utilized **Arduino LCD Library** and 1602 LCD for MIDI Channel / CC number editing
- Interfaced with internal **EEPROM** to store knob values and provide a preset system for device

## PROFESSIONAL EXPERIENCE

**Freelance Web Developer / Tech Consultant**

2018 - 2020

- Slashed time to market for mentorship platform from months to weeks
- Reinvigorated aviation business by identifying and aggressively pursuing a market with potential to increase revenue while simultaneously **converting infrastructure into cash-generating assets**

**Test Engineer**

2017 - 2018

*Precise Path Robotics*

- **Reduced engineering troubleshooting time by over 25%** while acting as a liaison between engineering team and customers to improve product design
- Spearheaded service of autonomous robots in the field while gathering data and providing analysis on system faults — **reducing downtime by 50%**