

# Patrick Cohen

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## Summary of Qualifications

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- Proficient in developing software for data analysis, visualization, and reporting
- Experienced in data-driven investigations based on system software and cloud platforms
- Resourceful and effective communicator and team player

## Skills

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### Programming

- Python (Pandas, Plotly, Matplotlib, NumPy, Dash, Tensorflow, Keras, Object Oriented Programming)
- C
- C++
- Java, JavaScript (Node.js), HTML, PHP, Swift
- SQL, MySQL, NoSQL (Firestore)
- Linux Platform, CLI, Terminal (WSL and Putty)
- Shell Scripting, Bash
- Git and Github

### Experience in...

- **Development Tools:** Pycharm (Professional and Community), Jupyter Notebook, Docker, VS Code
- **Data Tools:** Kibana, Elasticsearch, Tableau, Grafana
- **Cloud Platforms:** AWS (S3, EC2, Lambda, IoT Core, API Gateway, Dynamo DB), Google Cloud Services
- **IoT Protocols:** MQTT, BLE, REST APIs
- **Communication Protocols:** UART, SPI, I2C, CAN
- **Team Communication:** Slack, Jira, Confluence

## Work Experience

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### Embedded Software Support Engineer

Jul 2022 - Sep 2024

#### *ChargePoint*

- Programmed, tested, and deployed software tools for data analysis and visualization (Python) to notice trends and report crucial data for product performance in production.
- Developed automated scripts by integrating Python, Linux CLI tools, and custom database queries to perform production-wide software scans to identify bugs and shortcomings.
- Supported embedded firmware for the control of high-power electronics by finding public facing bugs and issues via system log analysis and communication with the integrated cloud platform.
- Triage production issues and helped customer support by collaborating with hardware, software, and cloud engineering teams to define and implement specifications, features, and APIs.
- Maintained good communication skills across teams via Jira, Slack, Confluence, and video conference.

### Microcontroller Programmer

May 2018 – Jul 2022

#### *Upwork Freelancing*

- Successfully completed 24 different microcontroller jobs for projects that collectively contained elements of circuit design, secure wireless communication, integration with an online database system and mobile app, automatic system processes using sensors, and motor control.

## Education

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Florida International University – Bachelor of Science (Electrical Engineering / Graduated. Year: 2021)