

Patrick Bauer

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Experience

Software Engineer II, *JPMorgan Chase & Co.*

July 2022 - Present

- ❖ Enabled new global cross-currency wire and ACH payments for Latin America using **Java & SQL**.
- ❖ Implemented new **REST API** endpoints to move automated testing to the cloud using **Java Spring** framework.
- ❖ Achieved unit test code coverage of 90% using **JUnit** framework.
- ❖ Used **Bitbucket** for version control, **Jules** pipelines for automation, and **Jira** for agile project management.
- ❖ DevOps: Provisioned **AWS** infrastructure using **Terraform** to deploy.

Mid-Level Software Engineer, *Cummings Aerospace*

August 2021 - June 2022

- ❖ Implemented microservices architecture using abstract **REST API** server to handle communication using **Python** and **C++**.
- ❖ Designed regression tests using **gherkin & BDD** framework and implemented unit tests using **C++ & Google Test**.
- ❖ Implemented real-time secure networking messages between embedded **Linux** systems using modern **C++** and **multithreading**.
- ❖ Increased test server efficiency by 87.5% by dynamically allocating cores per process using **Python** and **MySQL**.
- ❖ Acted as backup **scrum master** for my software development team.
- ❖ Used **GitHub & Bitbucket** for version control, **Jenkins** for automated building & testing, and **Jira** for agile project management.

Junior Software Developer, *NAVAIR*

March 2020 - November 2020

- ❖ Designed, implemented, and tested new features for internal application tools using **Java**.
- ❖ Involved in reviewing and creating software specification documentation for the development team.
- ❖ Used **SVN** for version control and **Jira** for agile project management.

Founder, *Affordable Drone Photography*

January 2016 - March 2020

- ❖ Website Development - Designed and maintained a website using **HTML** and **CSS**.
- ❖ Drone Pilot - FAA-certified Unmanned Aerial Systems Remote Pilot.

Web Developer, *Bauer International Group*

January 2012 - March 2020

- ❖ Formatted WordPress Content Management System and WordPress themes using **HTML & CSS**.
- ❖ Created graphic designs, photos, and videos using Adobe Photoshop, Premiere Pro, and After Effects.

Education

BS Computer Science, GPA: 3.94, University of Central Florida

May 6, 2021

AS Computer Programming & Analysis, Florida Southwestern State College

May 2019

Certifications & Licenses

AWS Certified Cloud Practitioner, Amazon

January 25, 2023 - January 25, 2026

Secret Security Clearance, DoD

March 2020 - June 2024

Unmanned Aerial Systems Remote Pilot, FAA

April 17, 2018 - April 16, 2020

Projects

Autonomous Search With AI - Lockheed Martin

- ❖ Real-time Object Detection Simulation (Gazebo)
- ❖ Machine Learning & Autonomous Navigation (Python)

Concurrent Blockchain - C++, Java, Rust

- ❖ Multi-threaded blockchain mining (C++, Java, Rust)

Stock Trend Analyzer - Python, Google Colab

- ❖ Data collection & visualization (python, public APIs)
- ❖ Backtesting algorithms on 10 years of S&P 500 data.

Covid Cards - Augmented Reality App & Webapp

- ❖ Augmented Reality App built using Unity (C#)
- ❖ Stack: Linux, React, javascript, MongoDB

Languages & Apps

Python, C++, Java, C#, Javascript, SQL, HTML
Spring, JUnit, Google Test, Google Colab,
GCP, AWS, Jenkins, Jules
English (fluent), Polish (fluent), Spanish (basic)

Clubs & Events

UCF Senior Design Showcase Judge	2021 - 2022
UF Swamp Hacks - Hackathon	2020
UCF Programming Club	2019 - 2020
UCF Coding Competition	2019