

Adam Corbin

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EXPERIENCE

Senior Software Manager

April 2018 – Present

GE Aviation

Clearwater, FL

- Grew and mentored the Aircraft Model, Trajectory Integration, Performance and Predictions, Flight Planning software teams of the Flight Management System from 5 to 15 directs and 30 contractors to support new features and verification
- Architected a scalable CI/CT strategy(100s of commits/day) for TrueCourse supporting 200+ people(**Python, Jenkins**)
- Saved an estimated 3-4,000 hours by leading a new testing strategy that joined high and low level testing together
- Improved Connected Aircraft Org(300+ engrs) monthly supply and demand by 30% by coordinating between SDMs and PMs
- Instructed the Embedded Software Development(**C**) and Compilers courses(**Java**) for the Edison program A course.
- Developed guidance on Product Line Eng., CM using Git, and alternate ways to represent requirements outside of DOORS.
- Designed a tool to test Nearby Database on Google Earth(KML) with dynamic updating based on aircraft position(**Python**)
- Created and instructed “Hack-In-Learn Alexa Skills” course for Amazon’s Alexa voice platform(**JavaScript/Python**)
- Mentored women in universities by developing skills to become successful in the STEM field as part of “Rewriting the Code”

Staff Software Engineer

June 2016 - April 2018

- Software technical lead for 3 Flight Planning teams(16 software engineers) on GE’s Flight Management System
- Improved performance by 15% by creating standards for requirements, software, test cases, and test procedures
- Increased site engagement by 50% through student backpack drives and holiday events by leading the engagement team
- Created and instructed “Hack-In-Learn Android” survey course for Android development(**Java**)

Senior Software Engineer

Feb 2015 - June 2016

- Software technical lead the Flight Planning team(6 software engineers) on GE’s Flight Management System
- Improved the visualization of complex SADL Ontologies representing 1,000s of nodes by using graphviz tools(**Python**)

Embedded Software Engineer

July 2012 - Feb 2015

- Designing requirements, wrote software(**C**), and created testing(**C**) for the Aircraft Health Management System(AHMS) project
- Lead features: LED status, generation of pilots Electronic Flight Log, and report generation to be send to the ground

Adjunct Professor

June 2013 – Present

St. Petersburg College

St. Petersburg, FL

- Courses - **Java 1**; Java 2; **SQL**; iOS App Dev(**Swift**); Android(**Java/Kotlin**), **C#**; COP1000(**Python**); **JavaScript**
- Integrated industry standard tools including automated testing by using GitHub classroom for the Python and JavaScript classes

Android Apps developer & Marketing

Jan 2013 – Present

Backflipped studios

Clearwater, FL

- Keep In Touch(2014)[**Java**], Lucky Slots(2016)[**Lua**] and Crypto Currency Tech Analysis(2017)[**Kotlin, Java, Firebase**]Github

EDUCATION

Florida Atlantic University

Boca Raton, FL

Doctor of Philosophy in Computer Science - Focus on Fairness in Machine Learning For Dermatology

Est. May 2023 GPA 4.0

- DIS - Medical image deep learning using TenstorFlow, Keras, & Pandas for image classification & segmentation
- SIIM 2022 - 2 posters[1][2] and 1 presentation in medical imaging, Deep Learning, & XAI. 1st place poster[Link]
- Paper under review “Exploring strategies to generate Fitzpatrick skin type metadata using ITA techniques”
- Mouse fraud detection - Used Amazon’s Mechanical Turk to collect data, built and trained Neural Network model to detect between human and computer mouse movements.[Paper]

Masters of Science in Computer Engineering - Focus on Embedded Systems

May 2012. GPA 3.9

Bachelor of Science in Computer Engineering

May 2011.

PROJECTS

RuneScape Game Client | *Java, Kotlin, Python, Firebase, Docker* Github, AWS Fargate

May 2019 – June 2021

- Reverse engineered a Java client using reflection and injection of Java Bytecode.Built a discord community (100+ people) to help guide and teach others the process.Created a Docker container to host the client and run instances on AWS Fargate

Nixie Tube Clock | *Python*

2019

- Designed and built a Nixie tube clock while using a Raspberry Pi as a controller. Contributed to Open Source project[Github]

Remote Garage door | *Python, Raspberry Pi*

2014

- Designed and built a garage door monitoring system that remotely controlled the door and sent SMS alerts

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C/C++, C#, JavaScript,Ada, Swift, SQL

Developer Tools: Git, Docker, Jenkins, AWS, Visual Studio, PyCharm, IntelliJ, Eclipse, Jira, IBM DOORS, Google Colab

Frameworks/Libraries: TensorFlow, Node.js, Flask, JUnit, pandas, NumPy, Matplotlib, scikit learn