

Michael Mascari

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<https://github.com/mmascari99>

Work Experience

CMC (contractor)

Sugar Grove, IL

Software Engineer 2

July 2024 – Dec 2024

- Wrote software for pilot controls and displays
- Lead engineer for “Worst Case Execution Time” reduction
- Worked with safety critical software under DO-178C standard

Northrop Grumman (contractor)

Rolling Meadows, IL

Software Engineer 2

Aug 2023 – June 2024

- Worked on radar jamming for the AC-130
- Focused on embedded software engineering in C++
- Completed new features from feature requests to fully completed
- Helped junior engineers as they encountered problems

CAE (Canadian Aviation Electronics)

Arlington, TX

Software Engineer 2

May 2021 – Mar 2023

- Worked on a F-16 simulator used for military training
- Wrote aircraft flight dynamics, behavior, and tactics
- Used C++, C, Python, Ada, Java, and SQL
- Developed low-latency and multi-threaded solutions
- Obtained secret security clearance

Advantek

Melbourne, FL

Software Engineer

Sep 2020 – Apr 2021

- Maintained and updated a codebase written in Python, C++, JavaScript, HTML, and CSS
- Developed software for portable diagnostic tools
- Wrote a python program that displayed the differences our products made

Notable Projects

- Created a Twitter bot that insults the users of a program I made
- Programmed a neural network for a drone to identify forest fires
- Freelanced an autotrade algorithm using TD Ameritrade API
- Volunteer worked on MRI software

Abilities

Formal education programming in C, C++, Python, and assembly. Strong understanding of Python, Java, Ada, Kotlin, go, HTML, JavaScript, CSS, JSON, and SQL. Software proficient with Git, Jira, BitBucket, Confluence, Visual Studio, Linux, Windows, Mac, cmake, and makefiles.

Education

Florida Institute of Technology: *Bachelor of Computer Science*

- Cumulative college GPA 3.42
- Minor in Computational Mathematics