

# Michael Ippolito

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## SKILLS

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Languages: Python | HTML/CSS/JavaScript | C# | Java | Flutter(Dart)

Frameworks: NumPy | Pandas | Django | NodeJS | React

Tools: Git/Github | Firebase | Azure | MySQL

## EXPERIENCE

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### Electronics Engineer

July 2021 - Present

402d Software Engineering Group RAFB | Warner Robins, GA

- Programmed multiple **desktop applications** to increase productivity of simulation file creation by 80%
- Used **Python with NumPy** to create quick, easy-to-use scripts for file conversion to XML, CSV, and simulator-based files with large amounts of data
- Adapted **Java APIs** to extract information from databases and designed WPF applications with **C#** to manipulate data and create convenient user interfaces
- **Coordinated multiple teams** to problem-solve applications and organize documentation with presentations explaining how the programs operated
- Held **secret-level security clearance** and stayed within Department of Defense guidelines to maintain classified information

### Flutter App Developer

January 2021 - May 2021

Mercer University School of Engineering | Macon, GA

- Designed and built a responsive mobile application using **Flutter(Dart)** to assist new college students to navigate Mercer University's School of Engineering
- Tasked to create an app that is easily updatable using **Firebase** database tools to change content almost instantly and is optimized for cross-platform use and multiple phone sizes

### Artificial Intelligence T.A.

August 2020 - December 2020

Mercer University School of Engineering | Macon, GA

- Assisted with preparing a class lab for 12 students that demonstrates multiple adversarial searches and allows students to implement their own **Minimax algorithm**, Alpha-Beta Pruning, and an Evaluation Function
- Utilized **Python(Pygame)** to create a simple Pac-Man clone as a testing ground for algorithms and used an auto-grader to simplify the grading process for the professor

## EDUCATION

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Mercer University | Macon, GA

August 2017 - May 2021

Bachelor of Engineering, Electronics and Electrical Engineering