

Aiden Thomas

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EDUCATION

University of Florida

Bachelor of Science in Computer Science, Minor in Communications | GPA: 3.54

Aug. 2023 – Jan. 2027

Gainesville, FL

Eastern Florida State College

Associate's in Liberal Arts | GPA: 3.67

Aug. 2021 – May 2023

Melbourne, FL

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (SQLite), JavaScript, HTML/CSS, Rust, Powershell

Frameworks: Wordpress

Developer Tools: Git, GDB, NeoVim, CMake, VS Code, Visual Studio, Command Line, Netbeans, Eclipse, Ghidra

Libraries: Pandas, NumPy, Matplotlib, OS, x11, SfmL, Sqlite3

Concepts: Data Structures and Algorithms, Internet Research, Open Source Intelligence, Computational Thinking

EXPERIENCE

Undergraduate Teaching Assistant

University of Florida

June 2024 – Present

Gainesville, FL

- Fostered upcoming computer engineering students with deep understanding of data structures
- Demonstrated exceptional mastery of course material through in-depth application with 20% faster debugging
- Led engaging discussions on core programming concepts with 98% attendance

Freelance Developer

Fiverr

Sep. 2021 – Jan. 2023

Melbourne, FL

- Dispersed automation tools that increased workplace productivity for teachers by 15% in grading software
- Improved time management to an error of 10 seconds through configurable multi-day timers
- Spearheaded an automated email with 250 hour up-time

PROJECTS

Networking | *Networks, Filius, Simulation, Java*

July 2024

- Constructed a simulated world wide web system with 0% data loss
- Operated Mailing services, DHCP servers, and HTTP requests with 30 simulated devices
- Managed and maintained a simulated cascading network failure with a 24% network loss

Static Chess Engine | *C#, Chess, Windows API, Statistics*

Jan. 2024

- Assembled static evaluation chess engine within 500 lines
- Utilized possible moves with predicted enemy moves to run risk analysis algorithms
- Derived from the Minmax AI algorithm with recursion

G-mail Remote Code Execution | *Python, Numpy, API, IMAP, Excel*

Dec. 2023

- Integrates the G-mail API into a python server with up to 10,000 entries
- Gives user access to the local host via any e-mail client with less than 3 minute lag time
- Exhibited a deep understanding of local remote code execution through the use of windows terminal commands, powershell, and python, adding perseverance from windows accessibility features

Windows Exploitation w/ Networking | *C, C++, Python, Windows API, Sockets, TCP, Arduino*

Nov. 2023

- Routed 3DS network communication with real time access to the host computers peripherals
- Developed using TCP connection with data compression to reduce overhead by 300 bytes
- Bypasses kernel level anti-cheat within Valorant 100% of the time

PERSONAL SKILLS

Team Building: Interpersonal Communication, Intercultural Communication, Managerial Communication

Clubs: Technology Student Association (President), Network Security Club, UF Student Information Security Team, Murder Mystery Club, A Capella