

MICHAEL ACOLATSE

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Permanent Address:

15588 Fancy Farm Court, Manassas, VA 20112

EDUCATION

University of Virginia

Candidate for BS in Computer Science

Charlottesville, VA

2023

Current GPA: 3.806

Relevant Coursework: Software Development Methods, Program and Data Representation, AP Computer Science A, Data Structures and Algorithms, Theory of Computation

WORK EXPERIENCE

Digital Capital Solutions

Software Engineer Intern

Washington DC

July 2020 – Current

- Integrated the backend database of a social media application using Firebase. Utilized third party login authentication.
- Worked on frontend mobile development to design and develop a mobile application for townships
- Developed and refactored designed mock-ups into code to then integrate into the main application using React Native and Git.
- Investigated and recommended different search engines to integrate into the main mobile app platform

TECHNICAL SKILLS

Tools

- Eclipse, Emacs, Jgrasp, MS Visual Studios, JUnit Testing, Bluejay, Unix, React JS, React Native, Firebase


Languages

- Advanced: Java, C++
- Proficient: HTML, JavaScript, Python
- Novice: CSS, Assembly(x86), Shell Script, Makefile, MATLAB

Concepts

- Object Oriented Programming, Abstract Data Types, Sorting Algorithms, Data Structures, Time-Space Complexity, Concurrency, Memory allocation, I/O, File Input.

Personal Projects:

 <https://github.com/mikeaco>

- Created a Sorting Visualization webpage using React JS
- Created a Pathfinding Visualization webpage using React JS. (Also includes a maze generating algorithm)
- Created an image inverter and pixelater using HTML, CSS and JavaScript.
- Created a Sudoku Solver which includes a visual animation of the backtracking algorithm using Java.

ACTIVITIES

National Computer Science Honor Society

Volunteer Instructor

Woodbridge, Virginia

September 2016 – June 2018

- Established an after school tutoring program for students struggling academically in Computer Science
- Instructed middle school students in intermediate Java programming at a Code Camp

Java Code Camp

Instructor

Woodbridge, Virginia

March 2017, March 2018

- Developed and organize lesson plans in introductory Java for middle school students
- Organized group activities for students to do during free time to encourage socialization

Soft Skills: Communication, Teamwork, Flexibility, Confidence, Problem Solving, Self-Management

Interest: Artificial Intelligence, Machine Learning, Traveling, Back-End Software Engineering, Front-End Software Engineering