Samuel McBride Gaines

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EDUCATION

The University of Alabama | Tuscaloosa, AL

M.S. in Computer Science | GPA: 4.0/4.0   **May 2025**

B.S. in Computer Science and Mathematics (Statistics & Optimization), Music Minor | GPA: 4.0/4.0   **May 2025**

Relevant Coursework: Software Engineering, Data Structures, Operating Systems, Database Management Systems, Algorithms, Programming Languages, Software Testing, Linear Algebra, Discrete Mathematics, Probability, Statistics, Nonlinear Optimization

Activities/Organizations: Honors College, Co-op program, Competitive Programming team, Putnam Math Competition, Reformed University Fellowship, Community Music School (piano teacher), Study Abroad (in Salzburg, Austria)

Madison Central High School | Madison, MS

High School Diploma | GPA: 4.0/4.0   **May 2020**

Activities/Organizations: National Merit Finalist, Engineering Academy, Mu Alpha Theta (president), Reveille Show Choir (dance captain), Madrigals Choir, Beta Club (treasurer), National Honor Society

TECHNICAL SKILLS

Programming Languages: C++ and Python (proficient); C and JavaScript (intermediate); Java (beginner)

Technology/Tools: MuleSoft Anypoint Platform and Microsoft Excel (proficient); Git, SQL, HTML, and CSS (intermediate); Node.js, React.js, Pandas, Microsoft Power BI, and Microsoft Power Automate (beginner)

Certifications: MuleSoft Certified Developer: Level 1

PROFESSIONAL EXPERIENCE

IT Co-op Associate | Trustmark National Bank | Jackson, MS   **June 2022 – Dec 2022, July 2023 – Dec 2023**

- Used MuleSoft Anypoint Platform to design, develop, and manage APIs and middleware assets
- Created and updated other middleware assets with miscellaneous technologies such as Python and Microsoft Power Automate
- Cleaned and visualized data on API key performance metrics with Microsoft Power BI to present to company leaders
- Worked with the team's GitLab server and made improvements to the CI/CD pipeline

Teaching Assistant | The University of Alabama | Tuscaloosa, AL   **Jan 2023 – May 2023**

- Helped CS 100 students (both majors and non-majors) with weekly C programming assignments
  - Topics included variables, functions, iteration, recursion, pointers, and more

PROJECTS

Tide Tweet Metrics | Capstone Design   **Jan 2024 – Present**

- Working with a team of seniors and a sponsor at the university to develop a dashboard giving insight to UA's Twitter presence against peer universities
- Using an Angular frontend, Django middleware, and MongoDB database
- Implementing a multithreaded Twitter crawler to pull tweets from Twitter

Candidate Hub | UA Innovate Hackathon   **Apr 2023**

- Collaborated with a team of 4 to develop a mobile app for a company to use to track resumes of job applicants, including functionality for candidates to upload pictures of resumes and for employers to filter resumes on various specifications
- Used a React Native frontend, Node.js and Express.js backend, and MongoDB database
- Placed 3rd of Technical Consulting entries

EXTRA-CURRICULAR ACTIVITIES & ACCOMPLISHMENTS

Piano   **Aug 2008 - Present**

- MTNA Competition: 2021, 2022, & 2023 – Mississippi Winner (Young Artist), 2020 – Mississippi Alternate (Senior)
- AMTA Competition: 2023 – Winner (Senior Concerto) & Honorable Mention (Senior Solo), 2022 – Winner (Junior Solo), 2021 – Winner (Overall Solo & Junior Concerto)
- Played with orchestras, bands, choirs, churches, instrumentalists, and vocalists

Boy Scouts of America   **Jan 2014 – Dec 2018**

- Earned rank of Eagle Scout in 2018
  - Led efforts to paint address numbers in front of 90 houses with reflective paint to aid emergency vehicles and the general population in locating specific houses at night
- Learned valuable life and leadership skills through classes, projects, mentorship, and being put in leadership positions