

Cade Agostinelli

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EDUCATION

Bachelor of Science in Computer Science

May 2026

Mississippi State University, Starkville, MS

GPA: 3.75

WORK EXPERIENCE

Fractal Networks, Starkville, MS

Jan 2024 – Apr 2024

Software Engineer Intern

- Collaborated with a team and led the development of over 50% of the backend production code for an event social media app utilizing React, Django, and Node.js, resulting in a user-friendly interface with efficient backend integration
- Containerized applications with Docker to ensure consistent environments, and improved scalability through CI/CD processes, including pull requests and resolving merge conflicts
- Implemented notification and phone verification functionality of the app using Twilio API and developed REST APIs for seamless communication between frontend and backend services
- Developed unit tests for Fractal Network's extensive systems and clients, achieving 90% average code coverage
- Improved Fractal Network's asynchronous client by developing over 60+ unit tests with Python while collaborating with senior software engineers to conduct code reviews and reimplement the client's infrastructure

Computer Explorers, Jackson, MS

May 2022 - Aug 2022

Stem Teacher

- Mentored and trained young minds from the Jackson metropolitan area in essential technical skills
- Helped equip over 100+ students with a solid foundation to excel in STEM fields in the future
- Coordinated and executed effective lessons to teach concepts like coding and sciences

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, HTML/CSS, Javascript

Developer Tools: VS Code, IntelliJ, Clion, Git, Pytest, Linux/Unix, Ubuntu, .NET

Technologies/Frameworks: Docker, NoSQL, REST APIs, MongoDB, JSON, Angular, Agile, Flask, React, Node.js, Django

PROJECTS

FinanceGuru Website | <https://github.com/cadeagostinelli/Finance-guru>

- Developed a full-stack financial analysis website, leveraging technologies like SQL, Flask, and pandas to analyze and present financial data, emphasizing proper data management
- Utilized Flask and data visualization tools to connect components and organize data

Ecommerce Application | <https://github.com/AadhavSenthil/MethodsAndTools>

- Created the backend of an ecommerce website using SQLite for data management and database methods
- Contributed to development processes utilizing agile methodology, enhancing team efficiency

Recipe Application | <https://github.com/cadeagostinelli/Recipe-App>

- Developed a Python program utilizing an online relational database and implemented SQL methods to enable users to add, store, and retrieve recipes, significantly improving recipe management efficiency
- Streamlined recipe organization, improving user experience and data handling

Drowsy Driving Engineering Design | <https://shorturl.at/aS6CV>

- Created a product addressing design specifications and problems culminating in an 80-page portfolio
- Worked on and coded the Arduino portion of project that handled the mechanics in C++
- Collaborated with senior industry engineers for project evaluation and feedback of our full-fledged prototype

RELEVANT ACADEMIC EXPERIENCE

Mississippi State University, Starkville, MS

Coursework | Machine Learning, AI Robotics, Artificial Intelligence, Operating Systems, Algorithms, Systems Programming, Data Structures, Methods & Tools In Software Development, Computer Organization, Intermediate Programming, Linear Algebra