Muchen Zhang

(470)263-0131 | mzhang616@gatech.edu | www.linkedin.com/in/muchen-zhang | muchenzhang.github.io

EDUCATION

Georgia Institute of Technology, College of Computing <div align="right">Atlanta, GA</div>

*BSCS, Computer Science: **GPA: 3.92*** <div align="right">*June 2025*</div>
- Relevant Coursework: Intro to AI, Systems and Networks, Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Hylanc Science & Technology Co. Beijing, China <div align="right">June 2023 – August 2023</div>

Fullstack Developer <div align="right">*Language: Java/Spring, Vue.js*</div>
- Automated the approval process of business services using Spring, ensuring scalability and maintainability
- Leveraged MyBatis and XML mapping to optimize SQL queries, leading to a 25% improvement in database performance
- Empowered users with a seamless task flow by developing a backend feature to export data entries to Excel, facilitating data analysis and reporting
- Successfully integrated the Flowable third-party API into the existing application. Designed and executed the end-to-end workflow solution, resulting in streamedlined process and a 40% reduction in approval time
- Refactored the budgeting system by introducing tree structures and joint database tables, enabling dynamic filtering of budgets by diverse properties and streamlining the business process

NCR Corporation, Atlanta, GA <div align="right">May 2022 – January 2023</div>

Site Reliability Engineer <div align="right">*Language: Python*</div>
- Productionized a high-impact REST API streamlining the change management process for 2000+ developers at NCR, resulting in increased development efficiency
- Initiated end-to-end development and containerization of the API using Python Flask framework, ensuring seamless deployment and scalability
- Deployed the GitOps process using Google Cloud Functions and Pub/Sub queues, automating workflow triggers and delivered smooth, automated application integration
- Lead the implementation of Github Actions and Slack integration, enabling real-time notifications to SRE developers upon production repository changes, bolstering team communication and responsiveness
- Increased testability, robustness, and performance through behavior-driven development (BDD) tests using Behave alongside unit tests and CI/CD pipelines, increasing test code coverage to 100%
- Promoted an adaptive and collaborative work environment by incorporating Agile methodologies

Archiviz GT, Atlanta, GA <div align="right">November 2021 – August 2022</div>

Backend Developer <div align="right">*Language: PHP, SQL, Python*</div>
- Wrote a script clearing unnecessary auto-generated tags applying it to a 50,000+ entry database
- Created a new instance of the project and produced a user guide to installing the project

PROJECTS

Broke Besties | *Python, PHP, SQL, HTML/CSS* <div align="right">October 2021</div>
- Constructed a finance-management web-app for college students during HACKGT 8 hackathon
- Designed a user login system with sessions and established basic CRUD operations
- Built a connection between the program and webcam such that users can scan their receipts
- Utilized the Microsoft Azure OCR API to parse and analyze inputs from the webcam

Meeting Scheduler | *PHP, SQL, HTML/CSS, JavaScript, Bootstrap* <div align="right">June 2020 – February 2021</div>
- Individually developed a full-stack web application with PHP and SQL as backend and HTML/CSS, JavaScript as frontend
- Created a database to store users' meeting information inputs
- Implemented Bootstrap library to create interactive web page with collapsible tables
- Designed and implemented an algorithm to detect conflicting meetings in the database upon new data entry
- Utilized PHPMailer library to automatically send emails to users when conflicting meetings occur

TECHNICAL SKILLS

Languages and Frameworks: Java, Python, Spring Boot, Vue, C, PHP, SQL, React
Developer Tools: Docker, Cloud Functions, IntelliJ, Git, Chrome DevTools, Aseprite