Jake Gustin

Atlanta, GA 30332 | 978-987-1051 | jakegust2020@gmail.com | linkedin.com/in/gustinj | github.com/jakegustin | jakegustin.github.io

Education

Georgia Institute of Technology

Master of Science in Computer Science   *Atlanta, GA | August 2025 - December 2026*
- Relevant Courses: Big Data Systems and Analytics, Incident Response

Boston University

Bachelor of Arts in Computer Science   *Boston, MA | September 2020 - May 2024*
- Secondary Bachelor's Degree in Film & TV via Dual Degree Program
- Graduated Cum Laude with a GPA of 3.82

Skills

- **Languages:** C • C++ • Python • JavaScript • Bash • HTML • CSS • C# • TypeScript • Go • Rust • Java
- **Tools:** GitHub Actions • Terraform • Docker • Docker Compose • Git • Postman • Make • CMake • Clang
- **Frameworks:** React.js • Vue.js • Vite.js • Angular • Tailwind CSS • Express.js • Node.js • Pytest • Jest • Catch2
- **Microsoft Azure Services:** Container Apps • Cosmos DB • Pipelines • Static Web Apps

Experience

Freelance / Various Organizations

Freelance Contractor   *Remote | January 2025 - August 2025*
- Contributed to datasets to improve the accuracy and performance of AI models
- Analyzed failure modes and strengths of prototype AI models in detailed reports
- Implemented comprehensive unit testing to ensure reliability of code solutions

Boston University

Courseware Developer   *Remote | May 2024 - August 2024*
- Developed additional features in open-source software to improve user experience
- Refined course documentation to improve usability of the course's software suite
- Contributed an assignment to the curriculum, testing core Bash and Git knowledge

Undergraduate Research Assistant   *Boston, MA | January 2024 - May 2024*
- Explored CPU energy savings in distributed workloads using Apache Flink
- Conducted experiments with Bash, c-states, and taskset to adjust system configuration
- Produced high-quality visualizations of experiment results with Python and matplotlib

Course/Teaching Assistant   *Boston, MA | August 2022 - May 2024*
- Led low-level programming sessions among 60 students to reinforce core concepts
- Supported 300+ students by holding office hours and answering questions online
- Modified course assignments and grading structures to reflect updated learning goals

Nuance Communications / Microsoft

Software Engineering Intern   *Remote | June 2023 - July 2023*
- Developed a proof-of-concept cloud deployment project with an agile sprint workflow
- Automated testing and deployment procedures with Azure Pipelines and Terraform
- Containerized the application's backend with Azure Container Apps and Docker

Projects

Jade: The Open-Source CPU Schematic Software Developed With Python, Bash, and JavaScript
- Implemented autosave functionality to improve fault-tolerance of the application
- Created extraction functionality to make schematics compatible with autograders

LapSim: The Lap Time and Track Condition Simulation Software Developed With C and Bash
- Developed a data generation program to simulate data on tire wear, car reliability, and weather conditions for 24 vehicles
- Built a data analysis program to analyze generated data on a lap-by-lap basis, extracting key insights and strategies

Additional Activities

- Organized educational workshops and creative activities at local libraries, improving engagement within local communities
- Prepared and distributed donated garments for a nonprofit organization, supporting underserved populations