

Jake Gustin

Atlanta, GA 30332 | [978-987-1051](tel: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

- Specialization: Computing Systems
- 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

Experience

Freelance / Various Organizations

Freelance Contractor

Remote | January 2025 - August 2025

- Contributed to over 10 datasets to improve the accuracy and performance of AI models
- Analyzed strengths and failure modes of prototype AI models in detailed reports
- Implemented comprehensive unit testing, ensuring reliability of code solutions

Boston University

Courseware Developer

Remote | May 2024 - August 2024

- Developed 5 additional features in open-source software to improve user experience
- Authored 3 user manuals to improve usability of the course's software suite
- Contributed 1 core assignment to the curriculum, testing Bash and Git knowledge

Undergraduate Research Assistant

Boston, MA | January 2024 - May 2024

- Developed reasoning for 28% energy savings in some Apache Flink configurations
- Conducted experiments with 32 unique c-state and frequency scaling policy setups
- 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 over 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

- Collaborated with 8 peers to develop a proof-of-concept cloud deployment project
- Automated testing and deployment procedures with Azure Pipelines and Terraform
- Used Azure Container Apps and Docker to containerize the application's backend

Projects

Jade

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

Lap Time and Track Condition Simulation Software Developed With C and Bash

- Developed a data generation program to simulate vehicle performance for 24 vehicles
- Built a data analysis program to perform lap-by-lap analysis and extract key insights

Additional Activities

- Organized workshops at local libraries, improving engagement in local communities
- Distributed donated garments for non-profit organizations, aiding underserved groups

Skills

Proficient Languages

C • C++ • Python • JavaScript • Bash • HTML • CSS

Familiar Languages

C# • TypeScript • Go • Rust • Java • OCaml

Development Tools

GitHub Actions • Terraform • Docker • Docker Compose • Git • Postman • Make • CMake • Clang

Python Libraries

Pandas • NumPy • Matplotlib • SciPy • scikit-learn • Seaborn

Testing Frameworks

Unittest • Pytest • Jest • Catch2

Frontend Web Development

React.js • Tailwind CSS • Vue.js • Vite.js • shadcn/ui • Angular • FontAwesome

Backend Web Development

Express.js • Node.js • Flask • FastAPI

Databases

PostgreSQL • MongoDB • MySQL • SQLite • Firebase • Liquibase

Cloud Platforms & Services

Azure Container Apps • Azure Cosmos DB • Azure Pipelines • Azure Static Web Apps

Distributed Frameworks

Apache Flink • Apache Kafka