Jake Gustin

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Education

Georgia Institute of Technology – *Master's in Computer Science*
August 2025 - Present

- Specialization: Computing Systems
- Relevant Courses: Real-Time Systems, Big Data Systems and Analytics

Boston University – *Bachelor's in Computer Science*
September 2020 - May 2024

- GPA: 3.82
- Relevant Courses: Advanced Software Systems, Full-Stack Application Development
- Secondary Bachelor's degree in Film & TV via Dual Degree Program

Experience

Boston University – *Courseware Developer*
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

Boston University – *Research Assistant*
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

Boston University – *Course/Teaching Assistant*
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 Comm. / Microsoft – *Software Engineering Intern*
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
- Used Azure Container Apps and Docker to containerize the application's backend

Featured Project

Jade

- Implemented autosave functionality to improve fault-tolerance of the application
- Created extraction functionality to make schematics compatible with autograders
- More Info: jakegustin.github.io

Skills

Proficient Languages: C, C++, Python, JavaScript, Bash, HTML, CSS

Familiar Languages: C#, TypeScript, Go, Rust, Java, OCaml

Tools: GitHub Actions, Terraform, Docker, Docker Compose, Git, Apache Flink, Apache Kafka

Frameworks/Libraries: Pandas, NumPy, Matplotlib, SciPy, Scikit-learn, Seaborn, Flask, Pytest, Jest, Catch2, Node.js, React.js, Tailwind CSS, Vue.js, Vite, Express.js, shadcn/ui, Angular

Databases: PostgreSQL, MongoDB, MySQL, SQLite, Firebase

Cloud Applications: Azure Container Apps, Azure Cosmos DB, Azure Pipelines, Azure Static Web Apps, AWS Lambda

Honors and Awards

Cum Laude (CS)
Boston University, 2024

Cum Laude (Film & TV)
Boston University, 2024

3x Dean's List
Boston University, 2021-2023