Jaehoon Song

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Software engineer with 4+ years of full-stack and systems development experience. Proficient in Node.js, React, C#, Python, SQL, LaTeX, and more; focused on building reliable, maintainable software demonstrated through open-source contributions.

EDUCATION

Georgia Institute of Technology | Atlanta, GA   *Dec 2025*
Bachelor of Science in Computer Science   GPA: 3.87/4.00

- **Theory**: Calculus (MATH 1551/1552/2550); Algebra (MATH 1554/2106/3406); Discrete Mathematics (CS 2050/MATH 3012); Differential Equations (MATH 2552); Probability and Statistics (MATH 3215); data structures and advanced algorithms; finite automata and complexity; Number Theory (MATH 4150) with applications in cryptography.
- **Media**: frontend stack (data visualization, Node.js with React, OpenGL, Unity); project management; design documentation; verbal and written communication
- **Awards**: Georgia Tech President's Undergraduate Research Award, 2024
- **Honors**: Dean's List, College of Computing, 2022

Gwinnett Technical College | Lawrenceville, GA   *May 2021*
Associate of Applied Science in Computer Science   GPA: 3.96/4.00

- **Project Management**: IT Analysis, Project Management, Advanced Systems Project;
- **Systems Architecture**: OS basics; Linux Customization; hardware and low-level languages; Application Development, Database Management Systems, App Design Architecture (MVC, MVVM, etc.),
- **Networking**: Socket Connections, Beans, Servlets, JSP, RESTful APIs; Network Configurations and Security;
- **Certifications**: Computer Programming; Java Programmer Certificate
- **Honors**: Honor's List

EXPERIENCE

Georgia Institute of Technology, School of Physics | Atlanta, GA   *Sep 2025*
Teaching Assistant (TA)   📁

- Operated lab sessions for PHYS 2211 by Emily Alicea-Muñoz since January 2023.
- Assisted students in completing lab assignments and understanding physics concepts.
- Developed GlowScript local IDE tools for PHYS2211; prepared course documentation using LaTeX typesetting system; professional teaching experience.
- **Domain Knowledge**: kinematics, dynamics, thermodynamics, energy and momentum
- **Honors**: Faculty Honors, School of Physics, 2023

Georgia Institute of Technology, School of Computer Science | Atlanta, GA   *Dec 2022*
Undergraduate Teaching Assistant (UTA)

- Conducted office hours and recitation sessions of CS 2050 to support student learning in discrete mathematics and related topics under the supervision of the College of Computing faculty.
- Prepared and edited problem sets, solution guides, and recitation handouts using LaTeX; coordinated with instructors to align recitation content with course objectives.
- **Domain Knowledge**: set theory, proofs, induction, combinatorics, basic graph theory, and introductory algebra/number theory for algorithms and cryptography.

SK C&C USA | Suwanee, GA   *Sep 2021*
Software Engineer/Developer

- Developed and operated MES, WMS, and SCM systems for SK Global Battery manufacturing.
- **Domain Knowledge**: Windows OS and hardware configuration; networking (Ethernet) and transfer protocols; .NET C# WinForms; Oracle DB and SQL.

Projects

Grady Health System | Atlanta, GA   *May 2024*
Software Engineer/Developer

- Developed a heart-care application to reduce hospital readmissions by detecting complications early from patient-reported data for a year as school coordinated capstone project.
- Technical Experience: System architecture and design documentation; database development with private networking using Apache Derby and custom SQL; mobile app distribution for patients; secure web portal construction for clinicians.

Skills

Language Proficiency: English, Korean (Native), Japanese (Intermediate)
Programming Languages: Java/Kotlin, Python, C/C++/C#, SQL (Oracle, MS Access, SQLite, Apache Derby, Postgres), JavaScript (Node.js, React), HTML/CSS, R
Mathematical Tools: LaTeX, Mathematica, MATLAB, NetworkX
Linux Customization: Bash scripting for Linux and OS X, Batch scripting for Windows, Shell scripting, Perl, AWK
Web Frameworks: React, Node.js, Flask, WordPress, FastAPI, Web hosting (Apache Tomcat, AWS)
Testing Frameworks: Selenium, JUnit, Material-UI
Data Science Frameworks: pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch
Databases: Oracle, MS Access, SQLite, Apache Derby, PostgreSQL, MongoDB, Mongoose
Developer Tools: Version Control (Git), GitHub/GitLab, Virtual Machine and Containers (Docker), TravisCI, Google Cloud Platform, Agile workflows, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Other Software: MS Office (Word, Excel, PowerPoint, Outlook), Adobe Design Tools, IDEs, Cloud Services

References

Available upon request.