

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, L^AT_EX, 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

- Completed coursework in 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
- Developed expertise in frontend stack (data visualization, Node.js with React, OpenGL, Unity); project management; design documentation; verbal and written communication
- Received Georgia Tech President's Undergraduate Research Award, 2024
- Achieved Dean's List recognition, College of Computing, 2022

Gwinnett Technical College | Lawrenceville, GA

May 2021

Associate of Applied Science in Computer Science

GPA: 3.96/4.00

- Completed coursework in IT Analysis, Project Management, Advanced Systems Project
- Gained expertise in OS basics, Linux Customization, hardware and low-level languages, Application Development, Database Management Systems, App Design Architecture (MVC, MVVM, etc.)
- Developed skills in Socket Connections, Beans, Servlets, JSP, RESTful APIs, Network Configurations and Security
- Earned Computer Programming and Java Programmer Certificates
- Earned Honor's List recognition

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 L^AT_EX typesetting system; professional teaching experience.
- Applied knowledge of kinematics, dynamics, thermodynamics, energy and momentum in lab instruction
- Earned Faculty Honors from 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 L^AT_EX; coordinated with instructors to align recitation content with course objectives.
- Applied expertise in 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.
- Configured Windows OS and hardware systems; implemented networking (Ethernet) and transfer protocols; developed applications using .NET C# WinForms; managed Oracle DB and SQL operations

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.