

# 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<sup>A</sup>T<sub>E</sub>X, 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, and verbal and written communication
- 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, and App Design Architecture (MVC, MVVM, etc.)
- Developed skills in Socket Connections, Beans, Servlets, JSP, RESTful APIs, and Network Configurations and Security
- Earned Computer Programming and Java Programmer Certificates
- Earned Honor's List recognition

## EXPERIENCE

**Columbia Academy** | Duluth, GA

*Present*

*Freelance Lecturer (1099 Contractor)*



- Instructed mathematics courses including AP Calculus, Linear Algebra, Multivariable Calculus, and Combinatorics for high school students
- Taught programming courses in JavaScript, Java, and Python following Georgia Tech CS 1301 and CS 1331 curriculum standards
- Delivered Physics 1, Physics 2, and Physics C instruction with hands-on laboratory components
- Developed comprehensive SAT bootcamp materials and published open-source educational resources at ydjs-publish repository
- Created structured learning environments for AP Computer Science Principles and advanced mathematics preparation

**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 and prepared course documentation using L<sup>A</sup>T<sub>E</sub>X typesetting system with 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<sup>A</sup>T<sub>E</sub>X and 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, and performed Oracle Database Administration (DBA) duties for enterprise systems

## 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, and 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.