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Hiring Manager, Human Resources Division
Oracle Corporation

October 31, 2025

Dear Hiring Manager,

I am applying for the Software Engineer - Global Industries position at Oracle. I am a Georgia Tech Computer Science student (B.S. expected Dec 2025) with a 3.87 GPA and an A.S. from Gwinnett Technical College (May 2021) in Computer Science. I have 4+ years of full-stack and systems architecture experience across web, desktop, and mobile platforms.

I have been working with Oracle technologies throughout my 20s and I personally value Oracle as a company and a platform. I am ready to commit my skills and grow with Oracle's Global Industries team.

My Oracle and database experience includes Java projects using JDBC and Oracle databases at Gwinnett Technical College, managing Oracle database operations for manufacturing execution systems at SK C&C USA, and using Oracle HR/Payroll systems as a Georgia Tech employee, which gave me a user's perspective on enterprise tools. While working on the Grady Health System Project at Georgia Tech, I also developed a CLI database tool inspired by Oracle's architecture and capabilities.

I work across the full software lifecycle following the requirements, design, implementation, testing, deployment, and monitoring phases. I have built systems for clinicians at Emory, factory operators, and enterprise users, am proficient in the languages and technologies listed in the job posting (except AI frameworks), and I work well and adjust quickly in collaborative, agile teams in any domain. Therefore, I believe I can contribute effectively to Oracle's Global Industries unit.

I will graduate in December 2025 and am available for full-time work after graduation. I am authorized to work in the U.S. and do not require sponsorship.

I have great respect for Oracle's technology and engineering practices, and I would be honored to dedicate my skills and effort to any of the teams within Oracle. Thank you for your consideration.

Sincerely,

Jaehoon Song
Enclosure: CV

Jaehoon Song

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*Software Engineer with 4+ years of full-stack and systems architecture experience across web, desktop, and mobile platforms.
Combines proof-based CS foundation and algorithmic problem-solving skills to build efficient and reliable systems.*

EDUCATION

Georgia Institute of Technology | Atlanta, GA

Dec 2025

Bachelor of Science in Computer Science

GPA: 3.87/4.00

- Built a proof-based theoretical foundation through coursework in calculus, linear and abstract algebra, probability & statistics, discrete mathematics, data structure & algorithms (DSA), automata & complexity theory, and number theory with cryptography applications (Security)
- Developed advanced problem-solving and algorithm design skills, including statistical methods, finite-state-machine (FSM)-based algorithms, and online algorithms
- Gained frontend, UI/UX, and graphics development experience: D3.js data visualization, OpenGL, and Unity game development by Agile's Scrum framework for project management, object-oriented design patterns and principles, design documentation, and strong cross-team communication skills.
- 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

- Built a practical software engineering foundation integrating desktop, web, and mobile development through coursework in IT Analysis, Project Management, and Advanced Systems Project
- Developed expertise in Linux customization, operating systems, C/C++ programming, concurrency/multi-threading, memory management (heap & stack), device I/O management, software architecture (MVC), TCP/IP fundamentals with socket programming, SOAP web services over HTTP, WebSockets, Java Beans, Servlets, JSP, network configuration
- Gained proficiency in application development: Java for enterprise systems and database management (Oracle SQL, MS Access, Apache Derby), Python for data analysis and media processing
- Earned Java Programmer Certificate, Honor's List, and Award of Merit

EXPERIENCE

Columbia Academy | Duluth, GA

Present

Freelance Lecturer (1099 Contractor)

- Instructed mathematics courses (Calculus, Linear Algebra, Combinatorics), science courses (Physics), and computer science courses (AP Computer Science A in Java, AP Computer Science Principles in JavaScript and Python) following Georgia Tech CS 1301 and CS 1331 curriculum standards for high school students since September 2024
- Designed coding challenge problems and implemented comprehensive unit tests to evaluate algorithmic correctness and programming proficiency
- Developed comprehensive SAT Summer bootcamp materials using customized L^AT_EX environments and commands for professional typesetting and released them as open educational resources under the CC BY-NC-SA 4.0 license

Georgia Institute of Technology, School of Physics | Atlanta, GA

Dec 2024

Teaching Assistant (TA)

- Operated lab sessions for PHYS 2211 under Emily Alicea-Muñoz from January 2023
- Assisted students in completing lab assignments and understanding statics/dynamics in physics including kinematics, dynamics, thermodynamics, energy, and momentum
- 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 for CS 2050 to support student learning in discrete mathematics (set theory, proofs, induction, combinatorics, graph theory, number theory, and cryptography) under the supervision of College of Computing faculty
- Prepared and edited problem sets, solution guides, and recitation handouts using L^AT_EX and coordinated with instructors to align recitation content with course objectives

SK C&C USA | Suwanee, GA

Sep 2021

Software Engineer/Developer

- Contributed to the MES system for SK Global Battery manufacturing, developed in WinForms (.NET Framework), focusing on networking components and PLC communication via XML data exchange protocols
- Designed user documentation to help factory workers understand and operate MES user interfaces effectively
- Configured virtual machines, Windows OS, and hardware systems using Ethernet networking and transfer protocols
- Maintained data consistency across factory plant systems and managed Oracle Database operations

PROJECTS

Greater Youth Collaborative Opus (GYCO) | Remote

Oct 2025

Web Developer (Freelance)



- Developed a complete static website for Korean-American youth orchestra institution following MVC architecture with SASS for Bootstrap customization and Vanilla JavaScript
- Designed build automation scripts, intuitive UI/UX with SNS integration, article management system, and content management capabilities for student administrators to understand web development principles and maintain the website independently

TradingBot (Automated Trading System) | Remote

May 2025

Software Engineer/Developer (Solo Project)



- Designed and implemented an automated trading system using low-level HTTP library (`request`) for direct API connectivity with brokers/exchanges using JSON data exchange format
- Built a scheduler-driven concurrency engine to continuously initiate and coordinate trading logic
- Implemented accounting python modules for real-time asset tracking, debit/credit (cash-to-equity) monitoring, rebalancing of index stock (SPY, QQQ, etc.), and dividend option strategies
- Built order management, error handling, logging, and reconciliation routines to maintain accounting integrity and auditability

Grady Health System (Not Publicly Available) | Atlanta, GA

May 2024

Software Engineer/Developer



- Developed a heart-care application to reduce hospital readmissions by detecting complications early from patient-reported data and following the Scrum framework of Agile as a year-long capstone project coordinated with Dr. Muling Lin from College of Medicine, Emory University
- Led system architecture design and comprehensive design documentation
- Developed a local database (Java, prototype only, build automation by Apache Ant) with minimal UI, integration with a RESTful Flask web server over HTTP, and socket connection for private network configuration/security using Apache Derby database engine to customize SQL rules for specific medical use cases
- Implemented statistical analysis modules (Python) for patient-reported data trends and alert systems for clinicians
- Delivered mobile app for patients and secure web portal for clinicians, with intellectual property assigned to College of Medicine, Emory University

SKILLS

Language Proficiency: English, Korean (Native), Japanese (Intermediate)

Programming Languages (Application Development): Java/Kotlin, Python, C/C++/C#, JavaScript/Node.js, React

Domain-Specific Languages: Bash for Linux (Linux Customization), Zsh for OS X, Batch for Windows, Perl and AWK for text processing and system administration, XML/JSON for data exchange (SOAP/RESTful API communication) and configuration. HTML/CSS for web, LaTeX for typesetting, MATLAB and Mathematica for numerical computing

Databases with SQL: Oracle, SQLite, Microsoft Access, Apache Derby (Java embedded)

Frameworks and Libraries: QT, PyQt, JavaFX, Java Swing, WinForms (.NET C#), Unity (C#), React, Node.js, Flask, FastAPI, D3.js, OpenGL, SASS (Bootstrap customization), Web hosting (Apache Tomcat, AWS), Testing Frameworks (JUnit, PyTest, unittest, Unity Test, NUnit (C#), CppUTest)

Software Engineering: Object-Oriented Design Patterns and Principles, Software System Architecture (MVC/MVP/MVVM), Design Documentation, Agile Development Methodology, Scrum Framework

Developer Tools: Version Control (Git), GitHub/GitLab, Virtual Machines and Containers (Docker), Agile workflow tools (Jira and Confluence), IDEs and Text Editors, Build Automation Tools (GNU Make, CMake/CTest/CPack, vcpkg, Apache Ant, Maven, Gradle, Poetry, npx, etc.), Documentation Generation (Doxygen, Javadoc, JSDoc, docstring), Package Installers (NSIS)

Other Software Tools: MS Office (Word, Excel, PowerPoint, Outlook), Adobe Design Tools, Cloud Services

REFERENCES

Available upon request.