

Jihun (Ethan) Shin

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EDUCATION & CERTIFICATION

Mathematics for Machine Learning: Linear Algebra	Feb 2024
AWS Cloud Practitioner Foundational	Jan 2023
Oracle Database 12c Administrator Certified Associate	Jan 2023
Georgia Institute of Technology	Atlanta, GA
M.S in Computer Science	Aug 2024 - May 2026(Expected)
George Mason University	Fairfax, VA
B.S in Information Technology	Aug 2018 – Dec 2022
Database Technology and Programming Concentration	

WORK EXPERIENCE

Software QA Engineer	Plano, TX
Samsung Electronics America (via MOA Staffing Inc.)	Jan 2024 – Present
<ul style="list-style-type: none">- Spearheaded execution and validation of QA field test plans, resulting in a 20% reduction in testing time while ensuring adherence to Network Operator requirements(T-Mobile, AT&T).- Documented and tracked user equipment hardware and software defects, leading to a 30% increase in defect resolution efficiency through bug tracking.- Applied analytical insights from field testing logs, leading to a 25% enhancement in test case effectiveness and defect identification using Key Performance Indicators (KPIs).- Enhanced test scope and coverage by 20% through software release notes and new feature integrations.- Employ expertise in planning and performing QA mobile field interoperability testing, utilizing advanced UE post-processing tools such as QXDM, QCAT, and Wireshark.- Demonstrate proficiency in LTE and 5G air interface technologies, network architectures, Radio Access Network (RAN), IP Multimedia Subsystem (IMS) features, and over-the-air (OTA) signaling protocols.	
Java Developer	Remote
Cognixia USA	Jun 2023 – Dec 2023
<ul style="list-style-type: none">- Developed a Full suite Spring Boot REST API, implementing Spring Security, Hibernate, JPA, and Mockito Test Suite.- Designed databases under principles of Normalization and ACID and SOLID patterns.- Applied Test-Driven Development using Junit and Mockito Unit Testing for a Spring Boot REST API.- Communicated with different team members to develop fully functional apps using different languages mainly Java.- Collaborated with developers to create a robust full-stack Java project.- Utilized different Generative AI tools to build AI models.- Specialized in OOP(Object-oriented programming) for better coding practice.	

PROJECTS

Hackathon(Via Code report)	Nov 2023
<i>Event focused on Java programming and computer science</i>	
<ul style="list-style-type: none">- Engaged in a high-intensity 2-hour hackathon, demonstrating proficiency in Java programming language under time constraints.- Successfully solved 200+ questions regarding software engineering, including but not limited to cloud computing and REST API development.	
Chat App – Blink Talk (Java, Spring boot, JWT, React, JavaScript, MySQL, WebSocket)	Link GitHub
<i>Chat app built from scratch using WebSocket for concurrent update between users</i>	
<ul style="list-style-type: none">- Led team of 3 in developing custom APIs using Java Spring Boot- Composed a user-friendly UI for user login, with security configurations and JWT token.- Leveraged React to design and develop an intuitive and visually appealing frontend; deployed the frontend application on Vercel; backend application on Render.- Managed the implementation of a WebSocket protocol, transforming the chat functionality into a lively and responsive experience for users.	

SKILLS

- **Programming Languages:** Java, Python, R, C++, C#, JavaScript, HTML, CSS
- **Technologies:** Generative AI, React, Spring boot, Flask, AWS, Docker, Git, Jira, Selenium, NumPy, Matplotlib, Seaborn, Pandas, Tableau, Excel, QXDM, QCAT, Wireshark
- **Database Management Systems:** MySQL, Oracle, Oracle PL/SQL, MongoDB, PostgreSQL