

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
George Mason University	Fairfax, VA
B.S in Information Technology	Aug 2018 – Dec 2022
Database Technology and Programming Concentration	
GPA: 3.25	
Major GPA: 3.74	

WORK EXPERIENCE

Software QA Engineer	Plano, TX
Samsung Electronics America (via MOA Staffing Inc.)	Jan 2024 – Present

- Spearheaded execution and validation of QA field test plans, resulting in a **20%** reduction in testing time while ensuring adherence to Network Operator requirements.
- 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).
- Optimized test scope and coverage based on software release notes and new feature integrations, ensuring a **20%** increase in testing comprehensiveness.
- 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.
- Deployed automation solutions resulting in a **30%** reduction in testing time.

Java Developer	Remote
Cognixia USA	Jun 2023 – Dec 2023

- 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.
- Practiced different algorithms and data structures for optimization.

PROJECTS

Hackathon(Via Code report)	Nov 2023
<i>Event focused on Java programming and computer science</i>	
- 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.	
- Demonstrated agility and adaptability to changing tasks and requirements during the hackathon.	

- Leveraged the hackathon experience to enhance understanding and practical application of software development principles in a competitive setting.

Chat App – Blink Talk (Java, Spring boot, JWT, React, JavaScript, MySQL, WebSocket)

[Link](#) | [GitHub](#)

Chat app built from scratch using WebSocket for concurrent update between users

Nov 2023

- 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.

Pokémon Trainer Management System (Java, AWS, JUnit, JWT, Spring boot, JIRA)

[GitHub](#)

Pokémon trainer management system custom API built from scratch, JWT token integrated with JUnit test

Aug 2023

- Led a team of 3 in successfully implementing **JWT** token for user authentication, strengthening system security and reducing potential vulnerabilities.
- Developed scalable and secure APIs using **Spring Boot**, facilitating seamless communication between applications.
- Directed the deployment of the application on **AWS** ensuring a secure environment.

Space Mission Launch Data Analysis(Python, Pandas, NumPy, Selenium, Seaborn, Matplotlib)

[GitHub](#)

Data analysis project build from scratch to visualize and drive insights of the data

Feb 2023

- Implemented Python packages such as **Pandas**, **NumPy**, **Seaborn**, and **Matplotlib** to extract, clean, analyze, and visualize space mission launch data.
- Created a custom web scraper using **Python Selenium** to extract data from nextspaceflight.com, expanding the range and scope of the dataset.
- Adopted **Google Colaboratory** to clean and visualize the data, highlighting key insights and trends.

SKILLS

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