**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 TechnologyAug2018 – 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 USAJun 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)**

*Event focused on Java programming and computer science* Nov 2023

* 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](https://spring-chat-frontend.vercel.app/) **|** [GitHub](https://github.com/domswaby/spring-chat-frontend)

*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](https://github.com/jimvic37/Pokemon-Trainer-Management-System)

*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](https://github.com/jimvic37/space_mission_analysis)

*Data analysis project build from scratch to visualize and drive insights of the data* Feb2023

* 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**

* **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