GAIL PARAYNO

SOFTWARE ENGINEER

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Education

ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY   **SOUTH KOREA**

Bachelor of Science in Computer Science and Engineering, Bachelor of Science in Design   *2020-2025*

- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Intro to AI Programming I and II, Computer Networks, Database Systems, Information Visualization, Blockchain Systems
- **Awards:** Cum Laude (2025), Academic Awardee (2020), Highest Lexile Award (2020)

Experience

O.M Farm   **Washington, USA**

Software Engineer Intern   *January 2024 - December 2024*

- Drove product growth via 30+ React/TypeScript frontend features and reusable components, using Docker, SOLID, and CQRS, with PostgreSQL/Firebase full-stack contributions.
- Ensured on-time sprint goal delivery, measured by consistently meeting sprint deadlines, through active participation in daily standups, sprint planning, and retrospectives.
- Maintained system stability and code quality through swift debugging and efficient problem resolution using Google Cloud CLI, resulting in significantly reduced bug occurrences, leveraging Git for code versioning and issue tracking.

Human-AI Interaction and Visualization Lab   **Ulsan, South Korea**

Software Research Intern   *July 2024 - December 2024*

- Analyzed LLM code generation errors from SWE-Bench, classifying bugs, feature requests, removals, and security issues, providing critical insights that influenced subsequent LLM development cycles.
- Identified key code comprehension themes from 50 survey responses to 9 questions, providing data-driven conclusions for a conference paper.

New Design Studio   **Ulsan, South Korea**

Service Design Intern   *September 2023 - December 2023*

- Improved university design department website's usability and accessibility by developing UI/UX and implementing responsive frontend solutions in WordPress, leading to positive user feedback.

Interactions Lab   **Ulsan, South Korea**

Human-Computer Interaction Intern   *July 2022 - December 2022*

- Contributed to the development of interactive VR touch typing application components using C# and Unity, supporting the team's goal of enhancing user immersion.

Personal Projects

Reply Intelligence - LINK   **August - December 2024**

- Refactored legacy code to a NestJS microservices architecture for Reply Intelligence. Developed frontend and backend components using React, Firebase, PostgreSQL, and Google Cloud Functions to enhance performance and user experience.

BountyEX - LINK   **July - August 2024**

- Developed the frontend for BountyEX, an Ethereum-based decentralized bounty platform, using TypeScript and NestJS. Integrated with smart contracts to ensure secure transactions and optimized the platform for user experience.

OM Farm Portal and Microservices - LINK   **January - May 2024**

- Designed and implemented the OM Farm Portal, including microservices such as article and agreement services, using TypeScript, following CQRS design. Developed full-stack functionality, and integrated Google services.

Other Experience

UNIST International Student Organization   **UNIST**

Creatives and PR Member   *March 2022 - December 2022*

- Enhanced online and offline presence through creative content creation and event promotion. Developed multicultural communication, coordination, and PR skills.

Teaching Assistant   **UNIST**

Anthropology and Computer-Mediated Communication Teaching Assistant   *March 2022 - December 2023*

- Assisted in course material development, assignments, and assessments.
- Conducted grading and offered constructive feedback to students.

Technical Skills

Languages: TypeScript, JavaScript, Python, C++
Technologies/Frameworks: React, NestJS, NextJS, ExpressJS, Docker
Database and Data Management: MongoDB, PostgreSQL, Firestore, Google Cloud Platform