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*
- **Selected Coursework:** Intro to AI Programming I and II, Data Structures and Algorithms, Software Engineering, Computer Networks, Database Systems, System Programming, Computer Architecture, Principles of Programming Languages, Intro to Human-Computer Interaction, Information Visualization, Blockchain Systems, Intro to Data Mining
- **Awards:** Cum Laude (2025), Academic Awardee (2020), Highest Lexile Award (2020)

Experience

O.M Farm   **Washington, USA**
Software Engineer Intern   *January 2024 - December 2024*
- Participated in the full-stack development of the Livestock Leasing Platform, employing GraphQL, JavaScript, TypeScript, React for front-end, and databases such as PostgreSQL and Firebase, while adhering to SOLID principles and implementing CQRS architecture for enhanced scalability and maintainability.
- Actively participated in daily standups, sprint planning, and retrospective meetings, ensuring seamless communication and alignment with project goals.
- Contributed to debugging, troubleshooting, and code reviews, leveraging tools like Google Cloud CLI to optimize system performance and maintain high code quality standards.

Human-AI Interaction and Visualization Lab   **Ulsan, South Korea**
Software Research Intern   *July 2024 - December 2024*
- Contributed to research on AI-assisted coding tools by analyzing the SWE-Bench dataset and conducting user studies on code comprehension.
- Performed thematic analysis of qualitative data and co-authored a conference paper submission.

New Design Studio   **Ulsan, South Korea**
Service Design Intern   *September 2023 - December 2023*
- Contributed to the UI/UX design and frontend development of the university design department's website.
- Implemented responsive frontend solutions to enhance website accessibility and user engagement.

Interactions Lab   **Ulsan, South Korea**
Human-Computer Interaction Intern   *July 2022 - December 2022*
- Contributed to interactive VR application components with a focus on enhancing user experience and immersion, utilizing C# and Unity to develop innovative features for touch typing with VR.

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