# 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*
- Developed and integrated 30+ features across OM Farm and Reply Intelligence, utilizing TypeScript, React, PostgreSQL, and Firebase, with SOLID and CQRS architecture.
- Ensured on-time sprint goal delivery through active participation in daily standups, sprint planning, and retrospectives.
- Maintained system stability and code quality by debugging and utilizing Google Cloud CLI for efficient problem resolution.

**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 to identify improvement areas.
- Identified key code comprehension themes from 50 survey responses to 9 questions, contributing to 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, 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, C++, Java, Python
**Database and Data Management**: MongoDB, PostgreSQL, Firestore, Google Cloud Platform
**Technologies/Frameworks**: React, NestJS, NextJS, ExpressJS