

Junui Hong

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Skills

Languages: C, C++, Python, Java, JavaScript, SQL, Haskell, Rust, TypeScript (in progress)

Frameworks: Spring, Spring Boot, Node.js, Next.js, gRPC, GoogleTest, OpenCV, React, Tailwind CSS, MongoDB

Tools & Systems: Git, CMake, Postman, VSCode, Linux (Ubuntu, Debian)

Projects

Portfolio Website | *JavaScript, React, Tailwind CSS* | [GitHub](#)

Oct 2025 – In Progress

- Developing a personal static portfolio with a retro-themed design using *React* and *Tailwind CSS* to showcase projects and skills
- Implementing routing with *React Router* and smooth text animations via *Typewriter-effect*

Discord Bot | *Python* | [GitHub](#)

Jul 2025 – Jul 2025

- Developed a modular Discord bot using *discord.py*, with music playback via *yt-dlp* and *FFmpeg*
- Integrated *OpenAI API* for conversational features; structured commands under a custom cog-based architecture
- Designed scalable and maintainable bot structure with custom decorators and dynamic command registration

Social Gaming Platform | *C++* | [GitHub](#)

Sep 2024 – Dec 2024

- Led a 7-person Agile team, overseeing sprint planning and conducting code reviews for backend architecture
- Built a *C++* multiplayer server with *WebSocket++* for real-time synchronized play and spectator broadcasting
- Validated server logic using *GoogleTest*, ensuring coverage of rule-based edge cases
- Boosted scalability by 30% through modular *CMake* setup and custom test harnesses

Tour Recommendation System | *Python* | [GitHub](#)

Jan 2025 – Apr 2025

- Built a CLI geotagged photo analyzer converting *.csv* metadata into *GPX* format using *pandas* and *gpxpy*
- Used spatial clustering with *scikit-learn* to identify tourism clusters; queried OSM data with *osmnx* to detect nearby amenities
- Implemented personalized routing with *networkx*, generating optimal paths (walking, driving, straight-line) based on spatial graph traversal

Industry Experience

Technical Assistant

May 2020 – Apr 2021

DAEWON Information & Communication Corp., Korea

- Troubleshoot browser, network, and AV system issues at Korea Nazarene University
- Performed routine PC and smart device diagnostics across academic buildings
- Maintained CCTV, access control, and campus Wi-Fi systems

Education

Simon Fraser University

May 2022 – Apr 2025

BSc in Computing Science – Software Systems

Dean's List (2 semesters)

Other Experience

Artillery Signal Operator

Jun 2018 – Mar 2020

Republic of Korea Army

- Led a 10-member squad as sergeant; trained soldiers in secure comm protocols and classified signal use
- Led the unit to 2nd place in a brigade-level communication and leadership competition among 10 squads