Junui Hong

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Skills

Languages: C, C++, Python, Java, JavaScript, SQL, Haskell, Rust, TypeScript
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

Doum Academy Platform | *TypeScript, Next.js, Node.js, MongoDB* | GitHub   **Nov 2025 – In Progress**
- Building a full-stack platform with multi-language support using *TypeScript*, *Next.js*, *Node.js*, and *MongoDB*
- Designing responsive, reusable UI components and implementing backend APIs for dynamic content handling
- Integrating real-time features, dynamic content handling, and preparing for deployment on Vercel/Render

Portfolio Website | *JavaScript, React, Tailwind CSS* | GitHub   **Oct 2025 – Nov 2025**
- 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   **Jun 2025 – Aug 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

Industry Experience

Technical Assistant   **May 2020 – Apr 2021**
DAEWON Information & Communication Corp., Korea
- Troubleshot 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 network 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