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EDUCATION

- **Ulsan National Institute of Science and Technology (UNIST)** — Ulsan, South Korea
  Department of Computer Science and Engineering — *September 2019 – February 2024 (Expected)*
  - **Relevant Coursework:** Introduction to Algorithms, Data Structures, Object Oriented Programming, System Programming, Software Engineering, Principles of Programming Languages, Database systems, Operating Systems, Computer Architecture, Discrete Mathematics, Information Visualization, Human-Computer Interaction
  - **Honors:** Global Dream Scholarship: full tuition waiver + monthly scholarship

RELEVANT EXPERIENCE

- **Perception, Action, and Learning Lab (UNIST)** — Ulsan, South Korea
  Software Engineer, Intern — *March 2023 – June 2023*
  - Automated spatial cutoff adjustments with Gaussian blur in image processing (OpenCV), saving administrators 50% of their time by eliminating manual frequency changes and enabling direct upload of original images.
  - Facilitated seamless data synchronization between Android SQLite and server databases, ensuring the integrity of survey questionnaire storage in the cloud. [Kotlin, SQLite]
  - Resolved critical server-side user authentication/authorization issues by overhauling code and establishing secure cloud connectivity. [NodeJs, MongoDB]

- **OnSquare HQ** — Seoul, South Korea
  Software Engineer, Intern — *January 2022 – March 2022*
  - Migrated audio editor to Web Audio API, resulting in a 2.4 times faster audio processing time (from 10 sec to 4.5-sec average) and reduced a codebase by 30% [TypeScript, Web Audio API]
  - Designed audio parameter visualization and optimized audio data conversion algorithm by 2x. [D3.js]
  - Optimized video and image adjustments through multithreading with the Worker API, significantly improving processing times for enhanced user experience.[Worker API, Redom. JS]
  - Created a TeX view of mathematical expressions using KaTeX, improving the readability of mathematical formulas on the web application [JavaScript, KaTeX]

INDIVIDUAL PROJECTS

- **Event discovery app (May 2023)**- demo
  Developed calendar application with location-based event discovery, empowering users to explore events based on their preferences effortlessly. Implemented advanced filtering options and customized calendar views, delivering a highly intuitive event exploration experience.
  [Node.js, EJS, Bootstrap]

- **Let language (November 2022)**
  Designed unique programming language, extending general Programming Language semantics and logic.
  The Let language functions as static language and can handle recursion, loop, if else operations
  [Scala, C++]

- **Task Manager bot (May 2022)**
  Developed Telegram Bot for Task Managing. Task Manager bot gets data about next-day appointments/tasks, sends reminders, and records task completion The bot sends weekly and monthly task completion summary
  [Node.js, Telegraf, Telegram API, Heroku]

ADDITIONAL EXPERIENCE AND AWARDS

- **Teaching Assistant at Advanced Programming (UNIST, February 2023 - June 2023)**
  Helped 50+ students to learn C/C++ and programming fundamentals. Assisted course instructor in grading student assignments and proctoring exams.

- **"A Basic CS skills" program Mentor (UNIST, December 2022 - February 2023)**
  Mentored freshmen students on non-academic CSE topics. Conducted various lectures on topics such as Shell Scripting, Command Line Environment, Security and Cryptography, etc.

- **Bronze medal, Eurasian Olympiad in Informatics**
  Awarded Bronze medal in competitive programming Olympiad among CIS students, Kazakhstan 2017

- **Third Prize, National Olympiad in Computer Science**
  Top 3 in nationwide competitive programming Olympiad among high school students, 2017

- **Honorable Mention, Asia-Pacific Informatics Olympiad**
  Top 15% in IOI-like competition for delegations within the Asian and Western Pacific regions, 2016

TECHNICAL SKILLS

Programming languages: C/C++, JavaScript, Python, Kotlin

Technologies: Node.js, Git, MySQL, MongoDB, D3.js, Docker