ALAMBEK GULAMIDINOV

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EXPERIENCE

NEPLA Co.   Seoul, South Korea
Software Engineer   *Mar 2024 - Present*
- Implemented Redis Cache Tagging to manage and invalidate cache entries, achieving up to **10 times** faster object retrieval.
- Engineered a JWT-based authentication and authorization system for the admin dashboard, improving security and user session management.
- Optimized expert score calculation by normalizing the database and implementing a cron scheduler, making top experts calculation **3x faster**.
- Developed REST APIs for server operations, focusing on secure, scalable, and maintainable code practices.

Stack: NestJS, Postgres, Prisma ORM, AWS, React, NextJS, Redis, TypeScript

PAL Lab   Ulsan, South Korea
Software Engineer, Intern   *Mar 2023 – Jun 2023*
- Automated image processing techniques, achieving a **2x reduction** in manual adjustment time by implementing spatial cutoff adjustments with Gaussian blur.
- Facilitated seamless data synchronization between Android SQLite and server databases, ensuring the integrity of 1000+ survey questionnaires storage in the cloud.
- Resolved critical server-side user authentication/authorization issues by overhauling code and establishing secure cloud connectivity.

Stack: Java, Express.js, MongoDB, Passport.js, OpenCV, JavaScript

OnSquare   Seoul, South Korea
Software Engineer, Intern   *Dec 2022 – Feb 2023*
- Upgraded video and image adjustments through multithreading with the Worker API, improving processing time for images and videos **by 3 times**.
- Spearheaded the development of a TeX-rendered math expression viewer, enhancing the readability and accessibility of complex mathematical formulas on the platform.
- Engineered a comprehensive History module, enabling robust undo/redo functionality.

Stack: Node.js, KaTeX, TypeScript, Redom

Software Engineer, Intern   *Jan 2022 - Mar 2022*
- Achieved a **2.4x speed** increase in audio processing by migrating the audio editor to the Web Audio API, resulting in a faster processing pipeline.
- Designed **3 types** of interactive charts for data and audio parameter visualization, improving user engagement and understanding of complex data sets.
- Optimized audio data conversion algorithm by **2x** and reduced codebase by **30%**.

Stack: Redom, JavaScript, D3.js, Aurora.js

PROJECTS

Maze Solver Project | *Java, C++*
Developed an advanced Maze Solver application that employs 3 different algorithmic strategies (Breadth-First Search, Depth-First Search, and A* Search) to find solutions to complex mazes.

Custom Language | *Scala, C++*
Designed a unique static programming language inspired by C++ semantics and logic, enabling 10+ features such as recursion, loops, if-else operations, and more.

EDUCATION

Ulsan National Institute of Science and Technology (UNIST)   Ulsan, South Korea
Bachelor of Computer Science and Engineering   *Aug 2019 – Feb 2024*
Ranked **10th** among young universities and **175th worldwide** by THE 2023

AWARDS AND ACTIVITIES

Microsoft Learn Student Ambassador, Aug 2023 - Feb 2024
Promoted leadership and fostered a strong tech community by organizing 2+ events and mentoring peers in technical and career development.

UNIST, Advanced Programming: Teaching Assistant, Feb 2023 - May 2023
Assisted course instructor helping 50+ students to learn C/C++ and programming fundamentals. Mentored freshmen in data structures and algorithms.

Eurasian Team Olympiad in Informatics: Bronze medal, Dec 2017

National Olympiad in Computer Science: 3rd place, Mar 2017

Asia-Pacific Informatics Olympiad: Honorable Mention, May 2016