

ALAMBEK GULAMIDINOV

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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

EXPERIENCE

NEPLA Co.

Seoul, South Korea

Software Engineer

Mar 2024 - Present

- Implemented Redis Cache Tagging to efficiently manage and invalidate cache entries, resulting in up to **10 times** faster object retrieval for specific use
- Engineered a JWT-based authentication and authorization system for admin dashboard, enhancing security and user session management.
- Optimized expert score calculation by normalizing database and implementing a cron scheduler, making the retrieval of top experts calculation **3x faster**.
- Developed REST APIs for server operations, including user data management, with a focus on secure, scalable, and maintainable code practices.

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

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 survey questionnaire 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

OnSquare

Seoul, South Korea

Software Engineer, Intern

Dec 2022 – Feb 2023

- Optimized 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 more efficient and faster processing pipeline.
- Designed and implemented 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

Event discovery app | *JavaScript, Express.js, PostgreSQL, React.js*

Designed a full-stack calendar web application with event discovery and filtering features from scratch.

Task Manager bot | *Node.js, Telegram API, MongoDB*

Developed a Telegram Bot Task Manager with a prioritization system and cloud-based database integration for enhanced task organization and accessibility.

AWARDS AND ACTIVITIES

Microsoft Learn Student Ambassador, Aug 2023 - Feb 2024

Learn Student Ambassadors are a global group of campus leaders who are eager to help fellow students, create robust tech communities and develop technical and career skills for the future.

UNIST, Advanced Programming: Teaching Assistant, Feb 2023 - May 2023

Assisted course instructor helping 50+ students to learn C/C++ and programming fundamentals.

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