Nuzup Shadiev

+82 (10) 2896-0702 | nuzupshadiev@kaist.ac.kr | linkedin.com/in/nuzupshadiev | github.com/nuzupshadiev

Education

KAIST - Korea Advanced Institute of Science and Technology [Ranked 56th] South Korea

Bachelor of Science in Computer Science, Minor in Business and Technology Management *Aug. 2020 – Dec. 2024*

- Relevant Coursework: Introduction to Algorithms, Software Engineering, Data Structures, System Programming, Programming Principles, Databases, Human-Computer Interaction, Operating Systems, Introduction to Artificial Intelligence, Computer Architecture, Programming Language, Discrete Mathematics, Linear Algebra

Experience

Calici Co South Korea

Full-Stack Software Engineer *Jan. 2022 – Present*

- Implemented an interactive web-based molecular visualization module with diverse molecular structure representations, attracting over 10,000 users and increasing their average session time by 15 minutes.
- Designed a user-friendly, node-based flowchart system, enabling users to customize and integrate over 20 modules and exchange data across multiple platforms, resulting in a 50% increase in user productivity and a 90% reduction in errors.
- Eliminated user wait times and improved process efficiency by enabling real-time data communication with websockets, ensuring immediate result transmission.
- Developed a robust secure payment system with a membership, token, and coupon architecture, driving automation of internal processes to achieve a remarkable enhancement in efficiency.

Sherpa Space Inc South Korea

Frontend Software Developer *Mar. 2023 – Aug.2023*

- Designed a comprehensive smart farm project, encompassing atmosphere, lighting, air control, and watering modules for efficient agricultural management and sustainability.
- Implemented an analytics tool to present real-time data using WebSockets, charts and data tables, assisting users in optimizing plant growth and improving agricultural outcomes.
- Enhanced agricultural efficiency and coordination by designing a real-time collaboration system that facilitates multi-user farm control and management using WebSockets and Server-Sent Events (SSE) protocols
- Developed an auto-scheduling system to control watering, solution, and environment using remote sensing and IoT devices, improving plant care and customization.

Projects

Smart Home Automation System | *React, Django, WebSocket, PostgreSQL, MQTT, JWT, AWS*

- As part of a group project for the CS350 Software Engineering course, we implemented a full-stack smart home automation system, integrating various IoT devices, enabling user-friendly control via the web, and ensuring data security and real-time notifications.

Meal Planner App | *React, Django, PostgreSQL, JWT, OAuth, Edamam*

- Implemented a Recipe Recommendation and Meal Planning App using React and Django, featuring user profiles, a recommendation engine, nutritional data integration, and a responsive web for a seamless culinary experience.

Leadership and Awards

FIRST Global Challenge UAE | Virtual

Team representer *Oct. 2019 | Jun.2020*

- Represented the national robotics team twice in an olympics-style, international robotics competition, in 2019 and 2020.
- Engineered, designed, and programmed a prototype of a semi-autonomous marine robot capable of collecting marine plastic pollution using REV robotics and Java programming language.

Technical Skills

Programming Languages: Javascript/Typescript, Python, Java, C, SQL, Rust, HTML/CSS
Frameworks & Tools: React, Redux, Node.js, Django, MySQL, PostgreSQL, Git, Docker, WebSocket, REST API, Unix/Linux, TCP/IP/HTTP, Figma
Languages: English(Fluent), Kyrgyz(Native), Russian(Fluent), Turkish(Intermediate), Korean(Basic)