Harry Park

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EDUCATION

The University of Sydney   Sydney, NSW
Bachelor of Computing   Nov 2024
Major in Computer Science
Relevant Coursework: Object-Oriented Programming; Data Structures and Algorithms; Algorithm Design; Artificial Intelligence; Distributed Systems; Scalable Data Management; Usability and Security

WORK EXPERIENCE

Link Australia (International Student Service Agency)   Remote
Software Engineer Intern   Sep 2024 – Jan 2025
- Developed an in-house **online learning platform** that reduced resource sharing and access control time by approximately **95%**, enabling effortless management with just a few clicks.
- Improved user satisfaction by over **70%** compared to the manual process of sharing private YouTube video links, by incorporating feedback from students and staff during development.
- Integrated Streamable, a video hosting solution, to implement **domain protection** and ensure **uninterrupted video distribution across multiple countries**, enhancing accessibility and performance.
- Enhanced usability by implementing a **responsive design**, ensuring seamless access for students across multiple devices.

Yongsan-Gu Office (District Office)   Seoul, Republic of Korea
IT Administrative Assistant   Mar 2021 – Dec 2022
- Utilised IT systems to **streamline communication**, monitor compliance, and facilitate efficient **management** of essential public services for foreign residents during COVID-19 pandemic.
- Provided interpretation and translation services, facilitating communication between government staff and foreign residents while supporting administrative tasks to enhance office efficiency.

PROJECTS

Trecareer - Job Application Tracking Platform | website | source code   Next.js |TailwindCSS |Supabase
- Developed Trecareer, a job application tracker powered by **Supabase**, **Next.js** and **TailwindCSS**, enabling users to monitor application statuses, manage data dynamically, and track progress efficiently.
- Implemented secure account authentication process using popular **authentication providers** like Google and Github, ensuring efficient and dependable user access.

Distributed Coupon System | source code   Spring Boot | Spring Cloud Netflix Eureka | JPA |Redis | Kafka
- Implemented a **custom API Gateway**, integrated with **Netflix Eureka**, to validate incoming requests and **distribute traffic** across multiple service nodes, enhancing **scalability** and **reliability**.
- Streamlined data processing with **Kafka** for asynchronous communication and optimised performance using **Redis** for distributed caching.

Blockchain | source code   Python | socket | threading
Grade of the project: **HD (100)**   Unit: Distributed Systems
- Designed and implemented a blockchain system in a **distributed network environment**, incorporating consensus mechanisms and mining processes.
- Utilised **multi-threading** to enable **non-blocking communication** between nodes via **TCP/IP**, ensuring efficient data exchange and **synchronisation** within the blockchain network.

ADDITIONAL

Languages: JavaScript, TypeScript, Java, Python
Libraries & Frameworks: React, Express.js, NestJs, Spring Frameworks, Next.js
Databases & Data technologies: Redis, PostgreSQL, MySQL, Kafka, RabbitMQ, Prisma, TypeORM, JPA
Cloud platforms & DevOps tools: Docker, Amazon AWS (EC2, S3), Vercel, Supabase
Academic Achievements: Ranked **1st among 400+ students** in a competitive Propositional Logic assignment, which awarded scores based on ranking.