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Harry Park

Skills

- Language: Java, Python, JavaScript, TypeScript
- Front-end: React.js, Next.js, Tailwind CSS
- Back-end: NestJs, Spring, JPA, Prisma, PostgreSQL, Redis, Kafka, RabbitMQ
- Infrastructure: AWS(S3, EC2), Docker, Vercel

Work Experience

Software Engineer Intern   **Link Australia**   **Sep 2024 – Dec 2024**
e-Learning Platform team   Sydney, NSW (Remote)

- **Reduced lecture sharing time by 90%** by developing an **in-house e-learning platform** with integrated Video on Demand capabilities, replacing manual Youtube video link distribution with an **automated system** that efficiently provided students with instant access to recorded learning materials.
- Enhanced accessibility across devices by implementing a **fully responsive design**, ensuring seamless user experience on tablets, laptops, and other screen sizes.

Education

The University of Sydney   Sydney, NSW   **2018 - 2024**

- Bachelor of Computing - Computer Science major
- Capstone Project: High Distinction (93/100)
- Relevant Courseworks: Distributed Systems, Scalable Data Management, Algorithm Design

Projects

Trecareer - Job Application Tracker   **March 2025 - Present**

- Developed Trecareer, a meticulously crafted job application tracking system designed to **streamline the job search process** and **optimise career management**. Built with Supabase on the backend and cutting-edge web technologies like Next.js and TailwindCSS, the platform empowers users to **dynamically update and manage** detailed application information with ease.
- Implemented advanced features such as **sorting**, **filtering**, and **server-side pagination**, allowing users to efficiently manage large data sets.
- **Website**: trecareer-hjparrks-projects.vercel.app

High-Concurrency Coupon Issuance System   **Jan 2025**

- Developed a scalable, high-concurrency coupon issuance system using Spring Boot, Kafka, and Redis in a **microservices architecture**, designed to **handle massive simultaneous requests** efficiently.
- Implemented an **event-driven architecture**, incorporating Redis-based caching, rate limiting, and distributed locking to **ensure performance and data consistency under heavy load**.
- Secured the system with JWT authentication, applied Resilience4j Circuit Breaker for **fault tolerance**, and conducted comprehensive testing with JUnit, Mockito, and JMeter to enhance system reliability.
- **Github** repository: github/hjparrk/promotion-spring-boot

RenoPilot Web Platform (Capstone Project)

- Developed a web platform for renovation resources using Node.js, Express, and Prisma, ensuring secure and efficient data handling.
- Optimised code through refactoring, increasing reusability and reducing total source code length by 30%, while improving maintainability and testability.
- Implemented a CI/CD pipeline in Bitbucket with automated testing, achieving 80%+ test coverage using Jest for early bug detection and system reliability.