

Xiu Hong Kooi | Senior Software Engineer

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SUMMARY

Result driven Backend Software Engineer with a proven track record in shipping quality software. A team player who prides himself on proactively finding solutions, emphasising attention to details and writing clean code. An advocate of best practices, automation and continuous improvement.

TECHNICAL SKILLS

- Java, JavaScript, TypeScript, Python
- Spring Boot, NodeJS, ExpressJS, React
- Backend Engineering, Microservices, EDA
- DevOps, Docker, Kubernetes, GCP, AWS
- Git, CI/CD, GitOps, ArgoCD
- SQL, NoSQL, Caching, Pub/Sub, Kafka
- Data Structures and Algorithms
- System Design, API Design, Solutions Design
- Unit Testing, TDD, BDD, Automation
- Scrum, Agile Development

EXPERIENCE

MoneyLion

Senior Software Engineer, July 2021 – present

- Driving the adoption of the next generation technologies, revamping legacy implementations to use new and more efficient solutions, main driver in adopting Apache Kafka within the team.
- Acts as the technical lead within the team, managing multiple technical projects by proactively engaging in project discussions, designing solutions and taking charge of implementation.
- Improve the team's workflow and efficiency by introducing automations in linting, testing and release management.
- Mentor and guide junior engineers, provide debugging support, insights on key design decisions and share knowledge of software engineering best practice.

AirAsia

Software Engineer, Aug 2019 – Aug 2020

- Led and orchestrated the development of a new unified checkout and booking system by implementing core features and coordinating release.
- Implemented key features like refunds and flight change in our customer support chatbot.
- Took ownership of codebases, development and deployment stages by ensuring clean code and comprehensive testing.
- Improved the teams' software engineering process by enforcing best practices such as automation, strict code reviews, in-depth documentation and git branching strategies.

Keysight Technologies

Data Engineer Intern, June 2018 – Sept 2018

- Modernised our data infrastructure by migrating the existing tech stack to modern day solutions.
- Extended a legacy Java based application to provide json parsing and ingest support for proprietary files.
- Conducted experiment and case studies to identify the most efficient data pipeline and database design.

EDUCATION

University of Cambridge

Master of Philosophy in Advanced Computer Science

- Grade: 74%. Dissertation topic: Refinement Types in Real-World Programming
- Research in Programming languages theory and additional modules in Advanced CS topics

Newcastle University

Bachelor of Science in Computer Science

- 83% First-Class Honours, Highest Grade in Class
- 2x British Computing Society Academic Awards, Endowed Prize

SIDE PROJECTS

- **Personal Site** - React Single Page Application that acts as an online CV and portfolio, deployed on Netlify to provide CI/CD support. An additional site hosted using Ghost CMS is used for blogging purposes.
- **Genid** - GoLang and Redis based CLI application that generates random numeric or alphanumeric ids and ensures no collision.
- **Home Automation System** – A REST API written in JavaScript and uses MongoDB to control smart home appliances like light bulbs and wall outlets.
- **Term Rewriting System** – My undergraduate dissertation involving term rewriting systems that was written in Java and Swing GUI.
- **NE Weather** – A weather app that gives user activities suggestions based on the weather condition and air quality for Android written using the Native Java Android SDK. I led a team of developers to develop this app as part of our undergraduate team project.
- **QcK Budget** – An iOS budget tracking app built using Xamarin.iOS initially then migrated to Ionic that lets users log their income and expenses easily. Users can set recurring transactions and scan barcodes to quickly get the price of an item.
- **Anomify.com** – An anonymous messaging website developed in PHP and MySQL that lets users send and receive anonymous messages from each other. It was one of my earliest projects where I was introduced to web development.