

XIU HONG KOOI

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OBJECTIVE

Backend Software Engineer with excellent programming and problem solving skills who is passionate about shipping high quality software and leading teams. I am a diligent team player, fast learner who pays very high attention to detail and does not tolerate sloppy work from myself or my teammates.

EDUCATION

University of Cambridge, MPhil Advanced Computer Science

Oct 2020 - Jul 2021

- Modules in Advanced CS topics such as Advanced Operating Systems, Semantics, Algebraic Path Problems and Mobile Data Machine Learning.
- Research in Programming Languages Type Systems

University of Newcastle-upon-Tyne, BSc Computer Science

Sept 2016 - June 2019

- 83% First-Class Honours
- 2x British Computing Society Academic Awards, Endowed prize 2017. Highest grade in class of 2019.

EXPERIENCE

Software Engineer, AirAsia

Aug 2019 - Aug 2020

- Led and orchestrated the development of our new online checkout, booking system and customer support chatbot by implementing core features and coordinating release.
- 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.

Data Engineer Intern, Keysight Technologies

June 2018 - Sept 2018

- Modernised our data infrastructure by migrating the existing tech stack to modern big data technologies.
- Extended a legacy proprietary Java based parser that writes data to a relational database in order to switch to a NoSQL design.
- Contributed to the team going forward by providing valuable development work and insights through presentations and suggestions.

TECHNICAL SKILLS

- Proficient Backend Web Development using Java Spring Boot, Python Flask and ExpressJS
- Proficient in solving problems using Data Structures and Algorithms.
- Highly skilled in Cloud Technologies and DevOps using Google Cloud Platform, Docker and Kubernetes, 1x Google Cloud Certified.
- Highly skilled in using Git, building CI/CD pipelines and automated QA.
- Good working knowledge in different Database Systems in both RDBMS, NoSQL as well as in-memory database such as MySQL, MongoDB, Firestore and Redis.

PROJECTS

Genid - GoLang and Redis based CLI universally random ID generator that generates random numeric or alphanumeric ids and ensures no collision.

Home Automation System – A REST API written in JavaScript and uses MongoDB that controls 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.