

Sam Liu

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[LinkedIn](#) | [GitHub](#)

Experience

ResMed Inc. | Cloud Software Engineer (Full Stack)

July 2022 – Present

- **Legacy System Maintenance & Enhancement:**
 - Maintained and enhanced the legacy **Airview Web** system to ensure robust performance and reliability.
 - Implemented new features and optimizations that streamlined system operations.
- **Next-Generation Application Architecture:**
 - Contributed to designing and implementing a next-generation architecture using **micro frontends**.
 - Developed scalable user interfaces with **Angular** and **React**.
- **Cloud Infrastructure & CI/CD Pipelines:**
 - Managed **AWS** infrastructure using **Terraform** for secure cloud deployments.
 - Designed and maintained **CI/CD pipelines** with **Jenkins** and **GitHub Actions**, achieving a **500% speed increase** in deployments.
 - Implemented release pipelines for **Kubernetes** deployments using **Helm** and **Kustomize**.
- **Backend Service Development & Security:**
 - Led the development of the experience service API using **Java 17**, **Spring Boot 3.2**, and **Spring WebFlux**.
 - Developed robust authentication solutions with **Spring Security**.
- **Project Migration & Performance Optimization:**
 - Directed the migration from **Bitbucket** to **GitHub** and transitioned CI/CD from **Jenkins** to **GitOps**.
 - Enhanced performance across frontend (**React**) and backend (**Java Spring Boot**) systems, achieving a **10x reduction** in image size.

- **Leadership & Collaboration:**

- Collaborated with **Product Managers** to align project objectives.
- Led knowledge-sharing sessions and provided **mentorship**.
- Served as a rotating **Scrum Master**, ensuring agile practices across teams.
- Spearheaded the standardization of development and release processes across multiple teams.

Vnet Solutions Pty Ltd | Java Developer

August 2021 – July 2022

- Developed a full-stack Inventory Management System using **Java 8, Spring Boot, Hibernate (Spring Data JPA), Quartz, Redis, Spring Batch**, and **POI Helper**.
- Contributed to frontend development with **Angular 2.0** and **AG-Grid**.
- Provided Level 3 technical support and managed deployments in both PRD and UAT environments.

Articulate Pty Ltd | Backend Developer

November 2020 – July 2021

- Developed features for a back-office project (e.g., **activity configuration, gift configuration, role limitations**) using **React** (with hooks) for the frontend and **Laravel** for backend REST APIs.
- Led the development of a new CRM system as a full-stack developer using **Vue, Spring Boot, MyBatis Plus, Element Admin**, and **PostgreSQL**. Utilized caching strategies to handle high-volume requests.
- Built a log collection and data analysis platform using **ElasticSearch, Logstash, Filebeat**, and **Kibana**.

Technical Background

- **Languages & Frameworks:**

- **Backend:**

Java (Spring, Spring Boot, Spring MVC, Spring Cloud, Eureka, Spring Data JPA), **Python** (Flask, Django, FastAPI), **Go** (Gin, Beego)

- **Frontend:**
JavaScript/TypeScript (React, Next.js, Vue, Angular), **HTML/CSS** (Tailwind CSS, Material UI, Ant Design, SASS)
- **Mobile:**
SwiftUI
- **DevOps & Cloud:**
 - **CI/CD & Tools:** Jenkins, GitHub Actions, Cloud Build (GCP), Terraform
 - **Containerization & Orchestration:** Docker, Kubernetes (Helm, Kustomize)
 - **Cloud Services:**
 - **AWS:** ECS, EC2, RDS, OpenSearch, CloudWatch, ECR, CodeCommit, etc.
 - **Google Cloud:** Cloud Run, Artifact Registry, Container Registry, Cloud Build, Source Repositories, etc.
- **Databases:**
 - **Relational:** MySQL, SQL Server, PostgreSQL
 - **NoSQL:** MongoDB, Elasticsearch, Redis, Firestore

Education

Master of Information Technology

The University of Sydney

July 2019 – December 2020

Certifications & Personal Projects

- **Certifications:**
 - AWS Certified Solutions Architect – Professional
 - CKA: Certified Kubernetes Administrator
 - Project Management Professional (PMP)®
 - Google Cloud Certified Professional Cloud Architect
 - Microsoft Certified: Azure AI Fundamentals

- **Personal Project:**

Taste T AI

December 2024 – Present

- **Website:** tastetai.com
- **App Store:** [Taste T AI on App Store](#)
- **Description:** Transform your ingredients into tailored recipes with this AI-powered recipe assistant—making cooking effortless and exciting.

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