

# Sam Liu

✉ liushanzheng960522@outlook.com

☎ +61 0401 560 851 (tel:+610401560851)

📍 Wentworth Point, NSW 2127, Sydney

[LinkedIn \(https://www.linkedin.com/in/sam-shanzheng-l-993207179/\)](https://www.linkedin.com/in/sam-shanzheng-l-993207179/) | [GitHub \(https://github.com/shanzhengliu\)](https://github.com/shanzhengliu)

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## 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.
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## 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.
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## 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**.
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## 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

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## Education

### Master of Information Technology

**The University of Sydney**

*July 2019 – December 2020*

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## 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](https://www.tastetai.com/) (<https://www.tastetai.com/>).
- **App Store:** [Taste T AI on App Store](https://apps.apple.com/us/app/taste-t-ai/id6738065650) (<https://apps.apple.com/us/app/taste-t-ai/id6738065650>).
- **Description:** Transform your ingredients into tailored recipes with this AI-powered recipe assistant—making cooking effortless and exciting.

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