

Zhuang (Tony) Tang

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SUMMARY

Senior Backend & Cloud Engineer with 10+ years of professional software engineering experience building distributed, cloud-native systems. Strong background in backend system design, event-driven architectures, and large-scale AWS integrations. Proven ability to lead complex technical initiatives, design reliable and observable services, and unblock teams through developer tooling and platform engineering. Experienced in CI/CD automation, enterprise systems, and applied machine learning, with growing exposure to AI/LLM-assisted development.

TECHNICAL SKILLS

Languages: Java (primary), TypeScript(advanced), PHP(advanced), SQL; Python, JavaScript, C/C++

Backend & APIs: Spring Boot, FastAPI, Flask, Node.js, REST, GraphQL, Webhooks

Cloud & Distributed Systems: AWS (Lambda, API Gateway, SQS, SNS, Step Functions), Event-driven systems, AWS CDK, Serverless

DevOps & Reliability: Docker, CI/CD (GitHub Actions, Jenkins, Bitbucket Pipelines), Monitoring & Logging

Databases: MySQL, PostgreSQL, MongoDB

EDUCATION

The University of Adelaide

Master of Computing and Innovation

Adelaide, South Australia

July. 2022 – June 2024

University College Dublin

Master of Computer Science

Dublin, Ireland

July. 2012 – Dec 2013

Minzu University of China

Bachelor of Electronic Engineer

Beijing, China

Sep. 2008 – June 2012

EXPERIENCE

Senior Software Developer

Aligent Consulting Pty Ltd

Sep 2024 – Present

Adelaide, Australia

- Led and owned major Adobe Commerce (Magento 2) platform upgrades, including dependency alignment, extension compatibility analysis, migration planning, and production rollout.
- Designed and delivered highly customized enterprise e-commerce solutions integrating payments, logistics, ERP, CRM, and marketing platforms.
- Acted as technical lead for complex backend initiatives, owning system design, architectural decisions, and production readiness.
- Built distributed, event-driven cloud integrations using AWS Lambda, SQS, SNS, Step Functions, and AWS CDK.
- Defined integration standards, canonical schemas, and service contracts to reduce coupling and improve long-term maintainability.
- Led code reviews, mentored backend engineers, and drove improvements in developer productivity, reliability, and observability.

Software Engineer

AVIC Airport Runway Engineering Technology Co., Ltd

Jan 2018 – Apr 2022

Beijing, China

- Developed backend services using Spring Boot and relational databases to support internal and customer-facing platforms.
- Designed and implemented REST and GraphQL APIs to improve data access patterns and reduce over-fetching.
- Containerised services using Docker to ensure consistent deployment across environments.
- Built and maintained CI/CD pipelines with Jenkins and Docker, significantly reducing deployment time and manual errors.
- Collaborated with DevOps and product teams on system design, code reviews, and production support.

Software Engineer / IT Systems Support

Sino Engineering Pty Ltd

Apr 2014 – Jan 2018

China

- Maintained backend systems, servers, and internal applications supporting business operations.
- Designed and supported networked systems with a focus on reliability, security, and performance.
- Diagnosed and resolved system, network, and application issues across development and production environments.
- Authored technical documentation for system configurations and operational procedures.

KEY IMPACTS & STRATEGIC INITIATIVES

- Resolved a long-standing 4+ year local PWA debugging blocker by designing and delivering a Chrome-based debugging extension, unblocking frontend, backend, and DevOps teams and restoring local development capability.
- Designed and built a local AWS event capture and replay framework enabling Java-style step-through debugging for serverless workflows, eliminating risky live debugging and dramatically improving developer feedback loops.
- Led the redesign of the company's integration platform, replacing tightly coupled Serverless/CDK monorepo workflows with a canonical schema-driven, composable pipeline architecture using adapters and customizable processing slots.
- Established integration standards and service contracts that significantly reduced coupling, improved extensibility, and accelerated onboarding of new enterprise integrations.
- Built a production-grade Adobe App Builder application replicating core Shopify Flow capabilities, positioning the company strategically as Adobe Commerce transitions away from traditional Magento extensibility.
- Designed and delivered a fully functional, commercialized BigCommerce application using Gadget.dev, providing Shopify-equivalent automation and workflow capabilities and opening a new revenue stream.

AWARDS

30% Global Citizens Scholarship | *The University of Adelaide*

2023

15% Global Citizens Scholarship | *The University of Adelaide*

2022