

Marcus Chan

marcuschanjh@gmail.com | maruscjh.github.io

EXPERIENCE

Custom Software Engineering Associate Manager	2021 – Present
<i>Accenture</i>	<i>Singapore</i>
<ul style="list-style-type: none">Full Stack Engineer - Aviation Services (2024 - Present)<ul style="list-style-type: none">* Architected and delivered enterprise-scale serverless applications on AWS (Lambda, AppSync, CDK, DynamoDB, Amplify)* Engineered comprehensive solutions integrating hardware systems, cloud services, and interactive interfaces for enterprise transportation operations* Developed RFID-driven showcase systems, mobile wayfinding applications, and scalable voucher redemption platforms* Collaborated with solution architects, UX designers, and business stakeholders to deliver production-ready systems enhancing passenger experience* Led technical enablement initiatives including feature flag implementation, CI/CD pipeline automation, and cross-team knowledge transferSite Reliability Engineer - Public Services (2022 - 2024)<ul style="list-style-type: none">* Designed and deployed enterprise chatbot solution reducing service request processing time by 65-70%* Implemented comprehensive monitoring and alerting frameworks across multi-tier applications and infrastructure* Optimized tenant onboarding processes, ensuring seamless and secure platform integration* Enhanced security posture through vulnerability remediation and system integrity enforcement protocolsSoftware Development Engineer - Financial Services (2022)<ul style="list-style-type: none">* Developed and integrated mission-critical APIs using Django framework for enterprise financial services platform* Managed full software development lifecycle from requirements gathering through production deployment* Represented Accenture's technical capabilities at Singapore FinTech Festival 2021, showcasing innovative solutions to industry leadersApplication Engineer - Healthcare Services (2021 - 2022)<ul style="list-style-type: none">* Automated complex reporting workflows through advanced data analysis and SSRS/SSIS pipeline development* Resolved critical service requests and platform issues across SSRS/SSIS and Pega systems, maintaining 99.9% uptime* Delivered operational support to healthcare stakeholders, ensuring continuous service availability and optimal performance	
Software Delivery Engineer	2019 – 2021
<i>Whale Cloud</i>	<i>Singapore</i>
<ul style="list-style-type: none">Software Delivery Engineer - (2020 - 2021)<ul style="list-style-type: none">* Delivered multiple enterprise-grade Business Intelligence dashboards using Alibaba Cloud ecosystem (Dataphin, DataWorks, QuickBI, DataV)* Recognized by Alibaba Cloud as subject matter expert, invited to conduct technical sharing sessions on DataV platform capabilities* Led end-to-end UAT cycles and quality assurance processes, ensuring 100% reliability and business requirement alignment* Managed Proof of Concept (POC) development initiatives as technical product manager, accelerating innovation delivery* Executed comprehensive big data implementations including system configuration, infrastructure upgrades, ETL pipeline development, and advanced SQL analyticsSoftware Engineer - (2019 - 2020)<ul style="list-style-type: none">* Joined Whale Cloud Singapore through Infocomm Media Development Authority (IMDA) Company-Led Training Programme* Achieved permanent staff conversion based on exceptional performance and technical contributions	

Junior Software Developer	2017 – 2018
<i>Veev Interactive</i>	<i>Singapore</i>

- Designed interactive e-learning videos and courseware with Articulate 360 and JavaScript, while creating assets using Adobe tools such as Premiere Pro, After Effects, Illustrator, and Audition
- Transcribed audio and incorporated subtitles into e-learning videos and courseware to enhance accessibility
- Refined e-learning videos and courseware through systematic reviews and updates
- Managed asset development lists for streamlined project workflows

Public Transport Security Command Officer	2014 – 2016
<i>Singapore Police Force</i>	<i>Singapore</i>

- Leading patrol teams on scheduled tours to maintain a visible and reassuring presence
- Diligently ensuring the safety and security of the public transportation network, a commitment to the well-being of all passengers and commuters

IT System Architecture Research Intern	2013 – 2013
<i>Hitachi</i>	<i>Singapore & Yokohama, Japan</i>

- **Research & Development Center - Singapore**
 - * Architected and developed a comprehensive Taxi Simulator application using HTML, Java, JavaScript, and Google Maps API
 - * Integrated Open Source Routing Machine (OSRM) to simulate real-world taxi interactions and passenger demand patterns
 - * Implemented data visualization components to analyze taxi sharing efficiency using historical traffic data
- **Yokohama Research Lab - Yokohama, Japan**
 - * Designed and built a scalable Big Data Graph Visualizer web application leveraging Apache Solr and Apache Hadoop
 - * Developed Java-based backend services and JavaScript frontend components for interactive data exploration
 - * Conducted performance analysis comparing different graph algorithms on Linux-based distributed systems

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, TypeScript

Cloud: AWS, Alibaba Cloud, Google Cloud Platform

Backend: Django, GraphQL, Node.js, REST APIs, Serverless Architecture

Devops: CI/CD, Docker, Git, Monitoring, Site Reliability Engineering, Terraform

Databases: Big Data Processing, DynamoDB, PostgreSQL

CERTIFICATIONS

AWS Certified AI Practitioner - Amazon Web Services	2025
HashiCorp Certified: Terraform Associate (003) - HashiCorp	2024
Databricks Certified Data Engineer Associate - Databricks	2024
Cloud Digital Leader - Google Cloud	2023
Certified Scrum Product Owner® (CSPO®) - Scrum Alliance	2022
AWS Certified Cloud Practitioner - Amazon Web Services	2022
Certified System Architect (CSA) - Pegasystems	2021
ITIL® Foundation Certificate in IT Service Management - Axelos	2021
Certified ScrumMaster® (CSM®) - Scrum Alliance	2021
Alibaba Cloud Professional - Cloud Computing - Alibaba Cloud	2019
Alibaba Cloud Associate - Cloud Computing - Alibaba Cloud	2019

EDUCATION

The University of Queensland	Brisbane, Australia
<i>Bachelor of Information Technology with a Major in Software Information System</i>	<i>2018 – 2018</i>

Singapore Management University	Singapore
<i>Bachelor of Science (Information Systems)</i>	<i>2016 – 2016</i>

Temasek Polytechnic	Singapore
<i>Diploma in Information Technology</i>	<i>2011 – 2014</i>