

Yap Yong Zhuo

Year 4 Computer Science Undergraduate

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EDUCATION

Bachelor of Computing in Computer Science (Honours)

Aug 2023 - Present

National University of Singapore (NUS)

- Relevant Coursework: Software Engineering (A+), Operating Systems, Computer Network

WORK EXPERIENCE

Accenture

May 2026 - Aug 2026

Software Engineer Intern

- Delivered full-stack features for a public service client's management application, building frontend in Angular and backend services in Spring.
- Validated Spring Batch jobs against requirements using PostgreSQL scripts for test data preparation and analysis, uncovering and fixing defects across multiple change requests.
- Owned backend implementation of a new policy requirement, extending service-layer business logic across multiple Spring Boot services and Spring Batch jobs.

Shopee

Jan 2026 - Apr 2026

Software Engineer Intern

- Enhanced Android frontend infrastructure in Java and Kotlin, including implementing fuzzy and global search in an in-app developer tools menu to cut tool discovery time for engineers.
- Extended media sharing functionality to support exports to popular social media apps, and partnered with QA to design test cases validating the new integration end to end.
- Drove impact assessment for Android API 36's mandatory edge-to-edge requirement, quantifying affected modules and implementation effort, then delivering required changes in selected modules.

Central Provident Fund (CPF) Board

Jun 2025 - Dec 2025

DevOps Engineer Intern

- Migrated version control and build workflows from IBM EWM to Azure DevOps across multiple application teams, ensuring continuity of existing pipelines.
- Implemented Azure DevOps CI/CD pipelines for code promotion and deployment across several repositories.
- Automated 8+ recurring team workflows such as access updates, repository creation, and bulk pipeline security permission changes by developing PowerShell and Bash scripts, reducing manual effort across the team.

PROJECTS

SQLancer Benchmark: Benchmarking Tool for an Automated Database Testing Tool

Jan 2025 - May 2025

- Built a Next.js web platform in a 6-member team to benchmark SQLancer, an open-source automated database testing tool, with real-time monitoring and visual reporting of results.
- Devised and implemented benchmark metrics such as code coverage, query complexity, and bug detection rate, automating measurement across multiple DBMSs with Python and Bash scripts.

BeanChillin: Forum Web-app for Discussions and Networking

May 2024 - Aug 2024

- Developed a Next.js university forum web-app in a pair, with authentication, groups, posts, friends, real-time chat, notifications, and an ML-based recommendation feed over PostgreSQL and Prisma; ranked Top 4% in NUS Orbital Program.
- Implemented Jest unit/integration tests and Cypress E2E tests with a GitHub Actions CI/CD pipeline to automate testing before deployment.

SKILLS

Languages: TypeScript, JavaScript, Java, Kotlin, Python, HTML, CSS, SQL

Frameworks/Tools: React.js, Next.js, Node.js, Express.js, PostgreSQL, Prisma, Firebase, Azure, Docker