

EDUCATION

National University of Singapore | Bachelor of Computing in **Computer Science** Grad: 2027
First Class Honours | **NUS Overseas College Malaysia** | **UTown Residential College Scholarship**
Notion - **Campus Leader** | RC4 Entrepreneurship Club - **President** | CS1010X & SWS3001 - **Teaching Assistant**

EXPERIENCE

ByteDance/TikTok | **Incoming Software Engineering Intern** Start Jan. 2026
ByteDance globally operates many content platforms, including TikTok, CapCut, Lemon8, & Lark. *Singapore*

- BytePlus (Seedance & Seedream 4.0): GrowthOps platform, PRM system.

IBM | **Full-Stack Developer Intern (Client Engineering)** Sep. 2025 - Present
IBM is the pioneering global tech firm known for innovation in cloud, AI, & enterprise solutions *Singapore*

- Forward deployed on-site to co-engineer B2G military personnel management system, consolidating role assignment workflows with React, Spring Boot, Node.js, AWS, Docker, SQL Server & CrowdStrike endpoint protection.
- Built Lambda-automated event & visitor retry management batch pipeline using Node.js workers, integrating FALCON & Sequelize for clearance, triggering notifications using SNS/SES/SQS & monitoring via CloudWatch.
- Implemented end-to-end conditional & automated on/offboarding with real-time cross-system validation to handle user role management across multiple locations via React & Spring Boot, reducing manual data entry by 80%.
- Developed role-based access control system with dynamic permission filtering & multi-location assignment logic.

CloudJoi | **Software Engineering Intern** May. 2025 - Aug. 2025
CloudJoi is Malaysia's largest digital ticketing platform for the arts - cloudjoi.com *Kuala Lumpur, Malaysia*

- Shipped 20+ production-ready features & hotfixes under C-Suite supervision for React & Laravel B2C platform, organiser dashboard, & React Native mobile app. Enabled annual sales of 169k tickets & RM14.5mil ARR.
- Launched knowledgebase.cloudjoi.com—dashboard helpdesk for 200+ clients—0→1 on Next.js.
- Deployed ticket check-in/out system for all live CloudJoi shows, enabling organisers to manage attendee status.
- Explored TypeSense semantic search & AI recommendations through vector embedding & clustering event data.
- Integrated password change confirmation flow with Laravel-triggered notifications & Blade email designs.
- Created RESTful OpenAPI documentation end-to-end via Scramble, increasing developer integration by 50%.

Strive (YC S21) | **Software Engineering Intern** Jan. 2024 - Jun. 2024
Strive teaches coding to youths, YC S21-backed, Forbes 30 Under 30 Asia, \$2.5M+ ARR *Singapore*

- Released 25+ suites of interactive p5.js & Python games explaining math concepts, used by over 10K students.

ENTREPRENEURSHIP & PROJECTS

Lokode (iOS Focus & QRCode Lock App) - TestFlight | *SwiftUI, Supabase, Next.js* Jul. 2025 - Present

- Founded the 1st Swift QR-based locking app to maximise user focus—delivered 100% free unlike paid alternatives.
- Devised Google OAuth authentication via Supabase, user profiles, & emergency unlock for user management.
- Implemented advanced QR code generation/scanning for instant device lock/unlock via CoreImage & ScreenTime.
- Developed interactive analytics dashboards with real-time charts for focus duration & productivity metrics.
- Launched responsive Next.js landing page with dynamic routing & iOS App Store promotion.

3D Interactive Portfolio Website - javier.chimera.sg | *Three.js, TypeScript, Next.js* Jul. 2025 - Present

- Unique & interactive Three.js website showcasing 15+ technical projects & experiences, with custom GLB models.
- Executed responsive design with mobile optimisation, with performance scaling & device-specific warnings to optimise user experience cross-platform, supported with animated UI components (Framer Motion & ChakraUI).

AI 2048 Solver | *Python, React, FastAPI* Jan. 2025 - Mar. 2025

- Initiated a 2048 game solver, applying sophisticated heuristics with mini-max algorithm & alpha-beta pruning.
- Applied sophisticated heuristics including positional weighting, clustering penalties, & empty cells.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, PHP, JavaScript, Swift, C, C++, SQL, HTML, CSS, R, Assembly, Bash

Frameworks: React (Native), Node.js, Next.js, Laravel, Spring Boot, Supabase, Flask, Django, FastAPI

DevOps & Tools: AWS, SQL Server, MySQL, MongoDB, PostgreSQL, Git, Vim, Xcode, GCP, Docker, IntelliJ, CLI

Libraries: Matplotlib, NumPy, pandas, Pygame, Cocos, PIM, p5.js, SwiftUI, Inertia, Three.js