

EDUCATION

National University of Singapore <i>Bachelor of Computing in Computer Science, Second Major in Data Analytics - First Class Honours</i>	Singapore May. 2027
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TECHNICAL SKILLS

Languages: Python, Java/TypeScript, Java, Swift, C/C++, PHP, SQL, HTML, CSS, MIPS/ASM Frameworks: React (Native), Next.js, Laravel, Flask, Django, FastAPI, Vite DevOps Tools: MySQL, MongoDB, PostgreSQL, Supabase, Xcode, GCP, Git, Docker, AWS EC2 Libraries: Matplotlib, NumPy, pandas, Pygame, Cocos, PIM, p5, SwiftUI, Inertia, Three.js	
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EXPERIENCE

CloudJoi Fullstack & Mobile Software Engineering Intern <i>CloudJoi is Malaysia’s largest digital ticketing platform for the arts - cloudjoi.com</i>	May. 2025 - Present Kuala Lumpur, Malaysia
<ul style="list-style-type: none">Pushed 20+ production features & hotfixes under C-Suite supervision for React & Laravel B2C platform, organiser dashboard, & React Native mobile app—enabling annual sales of 169k tickets & RM14.5mil ARR.Built knowledgebase.cloudjoi.com—dashboard helpdesk for 200+ clients—0→1 on Next.js, deployed via Vercel.Explored Typesense engine & GPT-powered recommendations through the use of vector embedding & clustering, hosted via EC2 to classify user data & identify trends for use in search.Created RESTful API documentation end-to-end via Scramble, increasing developer integration by 50%.Elevated UI/UX & authentication flows with responsive React & Blade designs, led UAT & designed unit tests.	
Strive (YC S21) Software Engineering Intern <i>YC S21-backed, Forbes 30 Under 30 Asia 2024-recognised EdTech, \$2.5M+ ARR</i>	Jan. 2024 - Jun. 2024 Singapore
<ul style="list-style-type: none">Launched a suite of interactive, visually engaging math games using p5.js & Python, demystifying advanced Grade 8 concepts for over 10k students with 20% increase in engagement & comprehension.Developed reusable components for 25+ modules, incorporating OOP, FP, & real-time user interaction handling.	
A*Star I²R AI Researcher <i>I²R advances cutting-edge technologies to power Singapore’s digital economy</i>	Nov. 2020 - Jan. 2021 Singapore
<ul style="list-style-type: none">Enhanced result accuracy of PCR COVID-19 tests through data analysis techniques on Jupyter NotebookExtracted & analysed datasets via Matplotlib, NumPy, pandas, applied EMA to determine sigmoidal curves from plot points & establish thresholds, producing numerous algorithms with 100% detection accuracy	

PROJECTS

Lokode (iOS Focus & QRCode Lock App) - Beta <i>SwiftUI, Supabase, Next.js, PostgreSQL</i>	Jul. 2025
<ul style="list-style-type: none">Building the 1st Swift QR-based locking app to maximise user focus—delivered 100% free unlike paid alternatives.Built Google OAuth authentication via Supabase, user customisation, & 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 and productivity metrics.Launched responsive Next.js landing page with dynamic routing & iOS App Store promotion.	
JustDid (Chrome Productivity Extension) <i>TypeScript, React, Vite, GenAI</i>	Jun. 2025
<ul style="list-style-type: none">ManifestV3 full stack Chrome extension for logging productivity at short intervals, with all data stored locallyBuilt features including a customisable focus timer, activity logging, WebExtLLM-powered suggestions, & implemented custom APIs to scrape user context history between intervals (navigations, searches, downloads)Implemented numerous export options (JSON, CSV, PDF) & React UI using Tailwind CSS & Chakra UI	
2048 AI Solver <i>Python, React, FastAPI</i>	Mar. 2025
<ul style="list-style-type: none">Engineered an advanced AI agent for the 2048 puzzle game using the minimax algorithm with alpha-beta pruning, achieving >90% success rate in reaching the 2048 tile.Designed & implemented sophisticated heuristics including positional weighting, clustering penalties, & empty cell analysis—to enable strategic, human-like gameplay. Displayed on React Frontend.	

LEADERSHIP & AWARDS

RC4 Entrepreneurship Club - President RC4 CSC Tech - SWE Team Lead RC4Floorball - Head Teaching Assistant - Programming Methodology, Computational Thinking RC4 Pitching Competition - Top 4	
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