

Tan Jian Ron (陈渐荣)

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EDUCATION

National University of Singapore

Aug. 2024 – Present

Bachelor of Computing – BC, Computer Science

- Coursework: Operating Systems, Computer Networks, Data Structures & Algorithms, AI and Machine Learning

WORK EXPERIENCE

Site Reliability Engineer Intern

May. 2026 – Present

Central Provident Fund Board

- Worked across ~30 repositories on security scanning, infrastructure changes, and pipeline reliability for Azure GCC systems serving 4M+ CPF members, including frontline support for failing builds across the platform
- Built weekly security scan orchestration across 3 Azure DevOps projects, wiring SonarQube, Fortify, Mend, and Trivy into 20+ application pipelines with findings normalised into a single reviewable weekly report
- Provisioned Azure infrastructure via Terraform including Key Vault private endpoints with public network access disabled and AKS cluster version upgrades across non-production and production
- Added Trivy IaC and image scanning to shared pipeline templates consumed by 170+ pipelines, and upgraded the GitVersion CI/CD task across 14+ YAML templates to migrate off end-of-life runners

Vice-Chairperson and Developer

Aug. 2024 – Present

NUS Sheares Web

- Led 16 developers to build and ship hall intranet and React Native mobile app using Next.js, Supabase, and AWS, saving hundreds of admin hours per year
- Designed and maintained AWS deployment infrastructure using SST (CDK), provisioning CloudFront, Lambda (SSR), and S3 with isolated preprod and production environments on Supabase
- Built automated CI/CD pipelines via GitHub Actions with Liquibase database schema migrations and a plan/apply data pipeline (Postgres), enabling zero-downtime deployments for intranet serving 400+ residents

Software Engineer Intern

Jan. 2026 – Apr. 2026

Screening Eagle | Proceq

- Built cross-platform e2e automation framework with Playwright & TypeScript across 10+ device/browser configurations, integrated into GitLab CI/CD, and automated 100+ regression cases with Python across web, iOS, and Unity

Software Engineer Intern

Jun. 2025 – Aug. 2025

TES Capital

- Built AI-powered document automation platform (ChatGPT API, n8n, React, Flask) converting unstructured insurance data into standardised policy documents with prompt and OCR workflows inferring missing fields, achieving 95% accuracy and saving ~20 minutes per document

Software Engineer Intern

Feb. 2024 – Jul. 2024

Hysses

- Built and deployed full-stack web application using React, Node.js, Express, MySQL, and Docker, and developed a custom API integrating NetSuite and MySQL for unified data access, reducing manual processing by 4 hours per week

PROJECTS

AllIn (Poker AI) – allin.jianrontan.com · github.com/jianrontan/AllIn

- Built a heads-up poker bot with CFR algorithm, training a ~195K info-set blueprint over 52M self-play iterations, with a safe blueprint-anchored river solver that re-solves the final street live to better approximate game-theory-optimal play
- Served it through a Flask/gunicorn REST API holding multi-turn game state in DynamoDB and strategy reads in SQLite, deployed on AWS (Lightsail Containers, ECR) behind Cloudflare with GitHub Actions CI/CD using OIDC and multi-stage Docker builds tested against a prod-equivalent image

Chess Explanation Engine – chess.jianrontan.com · github.com/jianrontan/Chess

- Building a RAG pipeline grounding LLM chess explanations in Stockfish analysis and retrieved human commentaries

Technical Skills

- **Backend:** Java, Python, Node.js, Express, Flask, MySQL, PostgreSQL, DynamoDB, SQLite, Supabase, REST APIs
- **Infrastructure / Systems:** Linux, AWS (Lambda, CloudFront, S3, Lightsail, DynamoDB, ECR, SST/CDK), Azure (AKS, DevOps, Logic Apps, Container Apps), Cloudflare, Terraform, Docker, GitHub Actions, GitLab CI/CD
- **Languages:** Python, TypeScript, JavaScript, Java, SQL