

Tan Jian Ron (陈渐荣)

✉: jianrontan101@gmail.com | Singapore | github.com/jianrontan

WORK EXPERIENCE

Site Reliability Engineer Intern

May. 2026 – Present

Central Provident Fund Board

- Working on Azure GCC infrastructure and CI/CD pipeline improvements using Terraform, Kubernetes (AKS), and Azure DevOps for systems serving 4M+ CPF members
- Provisioned and modified Azure infrastructure via Terraform and upgraded Azure DevOps pipeline templates across non-production and production environments

Vice-Chairperson and Developer

Aug. 2024 – Present

NUS Sheares Web

- 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
- Designed and maintained AWS deployment infrastructure using SST (CDK), provisioning CloudFront, Lambda (SSR), and S3 with isolated preprod and production environments on Supabase
- 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

Software Engineer Intern

Jan. 2026 – Apr. 2026

Screening Eagle | Proceq

- Architected cross-platform E2E test automation framework using Playwright and TypeScript, covering 10+ device/browser configurations via BrowserStack integrated into GitLab CI/CD
- Automated 100+ regression test cases using Python and AltTester, reducing manual test effort by ~3 hours per release per app across web, iOS, and Unity platforms

Software Engineer Intern

Jun. 2025 – Aug. 2025

TES Capital

- Developed AI-powered document automation platform using ChatGPT API, n8n, React, and Flask to convert unstructured insurance data (PDFs, images, text) into standardized policy documents, saving ~20 minutes per document
- Built prompt and OCR workflows to automatically extract and infer missing fields, achieving 95% generation accuracy

Software Engineer Intern

Feb. 2024 – Jul. 2024

Hysses

- Built and deployed full-stack web application using React, Node.js, Express, MySQL, and Docker, also developed custom API integrating NetSuite and MySQL, to digitalize company operations, 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 200K info-set blueprint over 50M self-play iterations, with a safe blueprint-anchored river solver that runs CFR live on high-stakes decisions to approximate game-theory-optimal play
- Productionised on AWS (Lightsail, DynamoDB, ECR) behind Cloudflare, with a Flask/gunicorn API, SQLite, and 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

EDUCATION

National University of Singapore

Aug. 2024 – Present

Bachelor of Computing – BC, Computer Science

- Grade: 4.11/5.00

Technical Skills

- Backend:** Java, Python, Node.js, Express, MySQL, PostgreSQL, DynamoDB, Supabase, Flask
- 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
- Frontend:** React, Next.js, React Native