

Professional Summary

Results-driven software engineer with 5+ years of programming experience, pursuing a Diploma in Digital Design & Development with **Director's Roll of Honour** recognition across multiple semesters. Specialised in **full-stack development** with **React, Next.js, and Python**, delivering real-time web applications, blockchain solutions, and immersive VR experiences. Actively participated in hackathons and technical competitions.

Professional Experience

Digital Content Developer Intern

Apr 2023 – Aug 2023

Singrow • Singapore, Singapore

- Designed and Developed company website using Wix, establishing digital presence for growing agritech startup
- Streamlined content management workflow, enabling faster update cycles and improved stakeholder communication
- Developed ERPNext solution to automate internal processes, reducing manual administrative tasks

Desktop Support Engineer Intern

Jan 2021 – Jul 2021

NCS Group • Singapore, Singapore

- Orchestrated end-to-end IT asset lifecycle management for hundreds of devices, maintaining inventory accuracy across multiple corporate client sites
- Resolved technical support tickets weekly, significantly reducing downtime for end users
- Performed enterprise-wide laptop refresh initiative for **300+ devices**

Technical Skills

LANGUAGES

JavaScript/TypeScript

Python

C#

SQL

FRAMEWORKS & LIBRARIES

React

Next.js

Astro

Tailwind CSS

Pycord

TOOLS & PLATFORMS

Git

Convex

Unity

ERPNext

Clerk

Cardano CLI

Notable Projects

One Day At a Time

Real-time multiplayer web application serving 50+ concurrent users for Youth Corps' poverty simulation programme, featuring live scoring and instant feedback mechanisms.

React

Next.js

Convex

Tailwind

InvoiceThing

Invoice management platform with real-time sync, authentication, and PDF generation, streamlining billing workflows for freelancers and SMEs.

Next.js

Convex

Clerk

Tailwind

Cardano NFT Minting System

Automated blockchain minting infrastructure processing 1,000+ NFT transactions with payment validation, price verification, and transaction submission via Cardano CLI.

Python

CardanoCLI

SQLite

Lost in the Stars

Immersive VR escape room experience featuring over 10 interactive puzzle mechanics developed with Unity.

Unity

C#

VR

HIMA NFT Art Generator

Procedural art generation tool creating unique NFT artwork through algorithmic composition using Python's image processing libraries.

Python

PIL/Pillow

OCBC VTM Innovation Challenge Prototype

AI-powered Virtual Teller Machine prototype for OCBC's Ignite Innovation Challenge, using Whisper and a local Ollama LLM to turn voice requests into guided banking workflows, with WebRTC escalation to a live agent for video, audio, screen share, and annotations.

React

TanStack Start / Vite

TypeScript

Whisper

LLM

WebRTC

Education

Diploma in Digital Design & Development

Apr 2024 - Present

Republic Polytechnic

- Current GPA: 3.96 / 4.00
- **Director's Roll of Honour (Top 10% of cohort)** - AY2024 Sem 1
- **Director's Roll of Honour (Top 10% of cohort)** - AY2024 Sem 2
- **Director's Roll of Honour (Top 10% of cohort)** - AY2025 Sem 1
- SCDF-Dell 'Lifesavers' Innovation Challenge
- DSTA Brainhack CODE_EXP
- University of Glasgow Hackathon
- Youth Corps Singapore's Mission X programme
- OCBC Ignite Innovation Challenge 2025

Higher Nitec in IT Applications Development

Apr 2022 - May 2024

Institute of Technical Education

- **President and Captain** of ITE Central Pool (9-ball), leading team of 20+ players in training and competitions
- Competed for ITE College Central in ARC College Challenge Cup 2022
- Competed for ITE College Central in Invictus 9-Ball 2022
- Competed for ITE College Central in ARC College Challenge Cup 1 and 2 2023

Nitec in Infocomm Technology

Jan 2020 - Feb 2022

Institute of Technical Education

- Joint ITE-Oracle Certificate in Essentials of Java Programming
- Member of ITE Central Pool