

Johnny Chung

Software Developer | CEng.
www.goodmanltd.com

GTA, ON
437-970-0303
johnny.chung2046@gmail.com
www.linkedin.com/in/johnny-wychung

SUMMARY

Full-Stack Software Developer with a passion and experience in building **web** and **mobile** applications, **microservices** backends (Spring Boot, Node.js, Kafka), cloud solutions on AWS and self-hosting backend services on personal server. Skilled in React, Next.js, React Native, containerization (Docker, Kubernetes) and CI/CD. Chartered Engineer (UK) with a strong problem-solving mindset, combining engineering rigor with software creativity. Experienced in delivering end-to-end solutions, designing cloud architecture, advising on technical decisions, optimizing performance, and collaborating directly with clients in small agile teams to turn ideas into impactful products.

SKILLS

Programming: **C, C++, Java, JavaScript, TypeScript, Python**

Frontend: **React, Next.js, React Native, Expo, Redux, Zustand, TailwindCSS, MUI, shadcn/ui, D3.js**

Backend: **Spring Boot, Node.js, Express, Flask, Auth0, RESTful APIs**

Containerization, Orchestration & Streaming: **Apache Kafka, Docker, Kubernetes, Skaffold, Helm, NATS**

Database: **Oracle SQL, PostgreSQL, MongoDB, Redis, Firebase**

Cloud Platforms: **Azure, AWS (Solutions Architect – Associate)**

DevOps & CI/CD: **Jira, MS Project, GitHub Project, GitHub Actions**

WORK EXPERIENCE HIGHLIGHT

Freelance Developer

○ Chiau Wei Corp. Ltd. (2024 – Current)

Inventory Management Mobile & Web Full-stack App

- [Live Demo](#)

Tech: Expo React Native, Next.js, Redux, Zustand, Jest, AWS, Docker, TypeScript, TailwindCSS, Auth0, MongoDB, Github Actions

- Launched a cross-platform mobile application (**Expo**) that reducing manual tracking by 40% through automation
- Built a web application with **Next.js**, leveraging SSR and on-demand data synchronization to improve performance.
- Proactively suggested and implemented architecture improvements. Deployed backend services in **Docker** containers on **AWS ECS** for core systems, and migrated intermittent jobs to **AWS Lambda + API Gateway**, improving scalability while reducing 24/7 hosting costs.
- Optimized existing backend architecture, **consolidating services into ECS cluster**, cutting operational costs by almost 60%.
- Managed **direct client interactions** as a 3-person freelance team, translating business requirements into actionable features and ensuring rapid delivery and support.

Employee Performance Tracking Mobile & Web Full-stack App

- [Live Demo](#)

Tech: Expo React Native, React, Redux, D3.js, Express.js, MongoDB, Auth0, AWS, GitHub Actions, Jest

- Led the **end-to-end development** of mobile and web app in a freelance team, driving the project from concept to production designed UI/UX, advised on architecture, and ensured high-quality, maintainable code.
- Built **iOS and Android apps** with **Expo React Native**, delivering a seamless cross-platform experience.
- Initiated and delivered a **React admin dashboard** with **D3.js**, providing near real-time insights and enhancing decision-making. Adding measurable value to the project.
- Designed a secure, scalable backend on **AWS** with **Express.js, MongoDB, and Auth0**, ensuring seamless authentication and access control.
- Implemented **CI/CD pipelines** with **GitHub Actions**, integrating testing with **Jest**, reducing deployment errors and accelerating releases.

Johnny Chung

Software Developer | CEng.
www.goodmanltd.com

GTA, ON
437-970-0303
johnny.chung2046@gmail.com
www.linkedin.com/in/johnny-wychung

○ Englobe Corp. (2024)

IoT Sound Monitoring Device Python App - [GitHub Link](#)

Tech: Python, Raspberry Pi, Docker, GitHub Actions

- Developed an **IoT** audio monitoring solution on **Raspberry Pi** using **Python**, containerized with **Docker** and automated deployments via **GitHub Actions**, reducing setup and release time for construction site monitoring.

○ Crux Pro Ltd. (2019 – 2022)

B2C Web Application

Tech: WordPress, LearnPress, HTML, CSS, PHP, JavaScript

- Managed and optimized a **WordPress-based web app** with **LearnPress** and custom code, improving uptime, user experience, and form submission efficiency for e-commerce operations.

OTHER WORK EXPERIENCE

○ Project Engineer & other Engineering Roles (ATAL Engineering Group, Arup) (2012 – 2022)

- Managed cross-functional teams and large-scale engineering projects under **waterfall model** and **NEC3** contracts
- Led in-house **BIM** and **IoT** development
- Developed and deployed various **VBA** scripts for performance checking, data analysis and technical calculation

CERTIFICATION

- **AWS Certified Solutions Architect – Associate**
- **Chartered Engineer (IMechE UK)**

PORTFOLIO PROJECTS

○ BookCrossing Web Platform Full-stack App - [Website](#) - [GitHub Link](#)

Tech: Next.js, shadcn/ui, Jest, Spring Boot, MongoDB, Kafka, Docker, Kubernetes, Skaffold, Helm, Auth0, Cloudflare tunnel, Stripe

- Developed a book exchange platform using **Next.js** and **MongoDB**, enabling multilingual search and CRUD book listings.
- Deployed backend **microservices** with **Spring Boot** and **Kafka**, orchestrated via **Docker**, **Skaffold**, and **Helm**, improving scalability and resilience.
- Integrated **Auth0** for secure authentication with role-based access, reducing unauthorized access.
- **Self-hosted backend infrastructure** on an Ubuntu server with Docker and Helm, ensuring full control and cost efficiency.

○ Microservices Ticketing Full-stack App - [GitHub Link](#)

Tech: Next.js, Docker, Kubernetes, NATS Streaming Server, Redis, Stripe API, GitHub Actions

- Developed a scalable ticketing platform with microservices architecture with **Docker**, **Kubernetes** & **NATS**, improving modularity and fault isolation
- Built a **Next.js** frontend with server-side rendering (SSR), enhancing performance and SEO visibility
- Integrated **Stripe API** to enable secure and reliable payment processing for ticket purchases
- Implemented **CI/CD with GitHub Actions**, reducing deployment time and ensuring smoother, automated releases

○ Virtual Library Full-stack Web App - [Demo](#) - [GitHub Link](#)

Tech: React (Vite, TypeScript), TailwindCSS, Firebase, Express.js, MongoDB, Auth0, JWT, Jira, GitHub

- Led a collaborative project to replicate real-world library workflows with the **MERN stack**, boosting team productivity through clear version control workflows in **Jira + GitHub Project**
- Built a **React** app with Vite and TypeScript and deployed on **Firebase** for fast, scalable hosting

Johnny Chung

Software Developer | CEng.
www.goodmanltd.com

GTA, ON
437-970-0303
johnny.chung2046@gmail.com
www.linkedin.com/in/johnny-wychung

- Developed a secure **RESTful API backend** with **Express.js + MongoDB**, supporting book inventory and user interactions
- Streamlined authentication and authorization using **Auth0 + JWT**, reducing manual account management
- **Reversi Game Full-stack Web App** - [Live Demo](#) - [GitHub Link](#)
Tech: Python, Flask, PyTorch, React, JavaScript, Docker, AWS, Unicorn, Nginx, GitHub Actions
 - Engineered a full-stack Reversi game platform with an intelligent **AI opponent**, combining a **Flask-based REST API** with a **PyTorch machine learning model** for real-time gameplay.
 - Deployed using **Dockerized** services on **AWS**, achieving high availability, scalability, and DDoS protection
 - Integrated a **React** front-end with **CI/CD** pipeline automated via **GitHub Actions** and **AWS S3 + CloudFront** for global distribution
- **Node.js Blog Service App** - [GitHub Link](#)
Tech: Node.js, Express, Handlebars, Bootstrap, PostgreSQL, MongoDB Atlas, Docker, GitHub Actions, Cyclic
 - Built a full-stack blog platform using **Express**, **Handlebars**, **PostgreSQL**, and **MongoDB**, enabling automated content and user management to improve efficiency and reliability.

(...more in my [GitHub](#))

EDUCATION

- **Computer Programming Diploma**
Seneca College
 - Object Oriented Programming, Data structures & algorithms: **C, C++, Python, JavaScript**
 - Database: **Oracle SQL, PostgreSQL, MongoDB, Schema Design, ERD, Data Normalization**
 - Web development: **HTML, CSS, Node.js, Express.js, PostgreSQL, MongoDB, AJAX, Bootstrap, RESTful API**
 - Testing & Quality Assurance: Test Plan, Scripts for **Unit, Functional & Integration Testing** with **Jest** & Visual Studio Debugger
 - Project Management: **Jira**, understanding **SDLC**, knowledge in **Scrum** & **Kanban** for agile development
 - Others: **Git, GitHub, CI/CD, Docker, Linux command & bash script, Markdown, Azure**
- **Cantek Cloud Computing Certificate**
Futuretek Academy
 - Collaborated with dev team to deploy Highly Available & Scalable app in **AWS & Azure**
 - Created **AD on-premise** and synchronize with **Microsoft Entra ID** in Azure
 - Configured VMs, load balancer & VPC, VPN, deploy RDS MySQL database
- **Master of Science in Engineering (Building Services)**
The University of Hong Kong
- **Bachelor of Mechanical Engineering**
The University of Hong Kong