

CHRIS KOAY

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SUMMARY

Full-stack software engineer with nearly **2 years of experience**. Worked for leading organizations including **RACQ and the State Library of Queensland**. I hold an **AWS Certified Developer – Associate certificate**.

WORK EXPERIENCE

Digital Full Stack Developer | RACQ, Brisbane, Australia

Apr 2025 - current

Tech Stack: Typescript, React.js, Vue.js, Tailwind, C#.NET, Sitecore, Docker, AWS, Azure.

- In charge of website release and deployment using Teamcity and Octopus Deploy.
- Implemented Website Security Measures including URI injection prevention, API input validation, Website Framing Protection, CORs configuration, APIM rate limit etc.
- Obtained extensive experience with Azure Services such as APIM, App Insights, App Services etc.
- Attended sitecore online training and worked on Sitecore CMS.
- Performed website debugging and error analysis using Azure Application Insights and AWS CloudWatch logs.
- Website maintenance and enhancement for RACQ.

Full Stack Developer | Working Mouse, Brisbane, Australia

Nov 2024 - Apr 2025

Tech Stack: Typescript, React.js, C#.NET, Docker, AWS, GitLab.

- Built the Property Acquisition and Disposal Record website for the Department of Transport and Main Roads (TMR).
- In charge of building the frontend and backend of the website.
- Deployment of the website to AWS ECS Fargate and setting up CI/CD on GitLab.
- Developed automated report generation solutions for PDF, Word, and Excel formats using Gembox.
- Mastered the concept of platform engineering and model-driven engineering.

Web Development Officer (Contract) | State Library of Queensland, Brisbane, Australia

Apr 2024 - Oct 2024

Tech Stack: Next.js, Typescript, Tailwind, MUI, PHP, GraphQL, Drupal, MariaDB, Solr, Docker, Lando, GitLab, Jira.

- Built the frontend and backend of the Queensland Colonial Secretary Website using Next.js and PHP.
- Maintained and fixed bugs for Queensland Government websites.
- Speed up search queries, create faceted search, pagination, sort query results and filter query results using Apache Solr.
- Built backend API endpoints using PHP.
- Configured Drupal pages and created/edited site content using Drupal.
- Wrote a data migration script to migrate and reformat data using Drupal migrate API.

Software Engineer Intern | Sindy Labs, Melbourne, Australia

Jan 2024 – Mar 2024

Tech Stack: Next.js, Typescript, Tailwind, Python Fast API, Shadcn, PostgreSQL, Docker, AWS ECS, GitHub, Notion.

- Contributed to building a full-stack application that uses AI to help students master a subject.
- Built a Retrieval-Augmented Generation (RAG) Chatbot using LangChain.
- Deployed multiple docker containers application to AWS ECS and automated CI/CD workflow using GitHub Actions.
- Build Sign-in and Sign-up pages using Clerk and assign user roles (admin and normal user) to user accounts using Clerk's API.
- Created automated email templates using React Email and sent automated email using Resend.
- Built backend API endpoints for PostgreSQL CRUD operations using Python Fast API.
- Wrote end-to-end testing scripts using Playwright and Cypress and performed website load testing using Artillery.

Frontend Web Developer Intern | Webby Group, Kuala Lumpur, Malaysia

Nov 2022 - Feb 2023

Tech Stack: Typescript, React.js, Redux Toolkit, Material UI, MongoDB, GraphQL, Node.js, GitHub.

- Contributed to both frontend and backend development.
- Designed and built MongoDB Database. Created GraphQL Schema to interact with MongoDB Database.
- Worked on website translation using the i18next module.

EDUCATION

Master of Information Technology (Specialization: Computing) **2023**
The University of Melbourne

Relevant courses: Introduction to Machine Learning, AI Planning for Autonomy, Computer Vision, Natural Language Processing, Internet Technologies, Algorithms & Complexity, Programming and Software Development, Database Systems & Information Modeling, Software Modelling & Design, Distributed Systems, Software Processes & Management, Advanced Database Systems, Software Project

Bachelor of Mechanical Engineering (Honours) **2019**
Monash University

Relevant courses: Engineering Mobile Apps, Programming for Engineers, Robotics, Final Year Project, Electrical Circuits, Electromechanics, Advanced Engineering Mathematics, Engineering Mathematics, Accounting for Managers

PROJECTS

AI Service Center Agent - https://youtu.be/xHV6_PZ7YQA **2025**

Tech Stack: Next.js, Typescript, Tailwind CSS, Shadcn AWS EKS, Terraform and Helm.

- This is an AI Service Center Agent built using openAI Realtime Voice. The AI agent knows when to start and stop talking as the user speaks. It was originally deployed to AWS EKS using Terraform and Helm.

Student Free Time Reward App - <https://www.youtube.com/watch?v=1gjnSAsXg> **2025**

Tech Stack: Electron.js, Next.js, Framer Motion, and Three.js

- This app is currently used at Brisbane Central State School.
- This macOS/WindowsOS app allows teachers to reward students with free time whenever they achieve something in class.

Pitch Fix App - <https://apps.apple.com/au/app/pitch-fix/id6753315030> **2025**

Tech Stack: React Native

- Pitch Fix helps people to become pitch perfect.
- Built using react native and distributed through Apple App Store.

Portfolio Website - <https://chrisyeesk.com> **2024**

Tech Stack: Next.js, Typescript, Tailwind CSS, Aceternity UI, Framer Motion and Shadcn.

- My personal portfolio. The AI assistant chatbot is built using LangChain and OpenAI api. The domain was purchased through AWS Route 53 and deployed to AWS EC2 using Nginx.

Chris' AI Assistant - <https://chrisyeesk.com/aiassistant> **2024**

Tech Stack: Next.js, Typescript, Tailwind CSS, LangChain, OpenAI api and Shadcn.

- Chris' AI Assistant is an RAG AI chatbot. It allows people to ask questions about my skills, work experience and educational background. The domain was purchased through AWS Route 53 and deployed to AWS EC2 using Nginx.

CERTIFICATES

- AWS Certified Developer – Associate (Mar'24)
- 9 other certificates available to view on my linkedIn

REFERENCE

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