

CHRIS YEE SHEN KOAY

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Work Rights: Full Working Rights until DEC 2028

SUMMARY

I am a result-driven software engineer with practical internship experience at Sincidium and Webby Group. I am passionate and focused on developing full-stack application using Next.js, React.js and Node.js. I hold an AWS Certified Developer Certificate.

SKILLS

Language: HTML, CSS, JavaScript, TypeScript, Java, Python, Visual C#.NET, VB.NET, MATLAB
Frontend: Next.js, Tailwind CSS, TypeScript, React.js, MUI, Redux Toolkit, Bootstrap, Jquery, React Native
Backend: Node.js, Express.js, Postman, GraphQL, Python Fast API, Socket.io, LangChain, PHP, XAMPP
Web Testing: Playwright, Cypress, Artillery, Jest, React Testing Library
Database: MySQL, MongoDB, Firebase, Prisma ORM
DevOps: Github CI/CD, Docker, AWS
Automation: PLC Automation (Keyence), Arduino, Raspberry Pi, ABB RobotStudio
Hardware: 3D printing (UltiMaker Cura), 3D Design (Solidworks)

CERTIFICATES

- AWS Certified Developer – Associate (Mar 2024)
- Coursera/AWS - AWS Cloud Practitioner Essentials (Jan 2024)
- Coursera/IBM - Developing Back-End Apps with Node.js and Express (Jan 2024)
- Coursera/IBM - Introduction to Containers w/ Docker, Kubernetes & OpenShift (Jan 2024)
- Udemy - Next JS: The Complete Developer's Guide (by Stephen Grider) (Jan 2024)
- Codecademy - Learn Jquery Course (Jan 2024)
- Codecademy - Learn React Testing (Jan 2024)
- Codecademy - Learn React Native Course (Jan 2024)
- Codecademy - Learn Intermediate PHP Course (Jan 2024)
- Codecademy - Learn PHP Skill Path (Jan 2024)
- Certificate of Solidworks Associate (Jul 2017)

EXPERIENCE

Software Engineer Intern

Mar 2024 - Present

Sincidium, Melbourne, Australia

- Contributed to Product Development in both Frontend and Backend using Next.js, Typescript, Tailwind, Python Fast API, Shaden and PostgreSQL.
- Built a Retrieval-Augmented Generation (RAG) Chatbot using LangChain and Socket.io.
- Deployed multiple docker containers application to AWS ECS Fargate.
- Automated CI/CD workflow using GitHub Actions.
- Built Sign-in and Sign-up pages using Clerk and assign user roles (admin and normal user) to user accounts using Clerk's API.
- Made website responsive by configuring static/dynamic pages and web page caching using Next.js.
- Created automated email templates using React Email and send 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.
- Website load testing using Artillery and Playwright.

Frontend Web Developer Intern

Nov 2022 - Feb 2023

Webby Group, Kuala Lumpur, Malaysia

- Contributed to Product Development in both Frontend and Backend using Typescript, React.js, Redux Toolkit, Material UI, Bootstrap, MongoDB and Node.js.
- Designed and built MongoDB Database. Created GraphQL Schema to interact with MongoDB Database.
- Built backend API endpoints using Express.js and Node.js.
- Worked on website translation using i18next module.

Process and Equipment Engineer**Mar 2020 - Sep 2021**

Intel Corporation, Penang, Malaysia

- Created a Visual C#.NET software to track equipment parts changed.
- Send automated emails using Python.
- Automated equipment log file analysis using Python.
- Coached technicians to troubleshoot and fix Intel CPU manufacturing equipment.

Process Engineer Intern**Nov 2018 - Jan 2019 & Nov 2017 – Jan 2018**

Advanced Energy Industries, Shenzhen China

- Reduced cycle time of an arc testing process by automating the process using PLC and creating a VB.NET application.
- Worked with supplier to build an automated arc testing machine.
- Used SAP to carry out duties of a process engineer.
- Created ECOs to improve a manufacturing process.

EDUCATION

Master of Information Technology (Specialization: Computing)**Jan 2022 - Dec 2023****The University of Melbourne**

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

Bachelor of Mechanical Engineering (Honours)**Jan 2016 - Dec 2019****Monash University****PROJECTS**

Final Year Software Project**Aug 2023 - Oct 2023**

University of Melbourne, Melbourne, Australia

- Designed and built a full-stack application for a Basketball Team in Australia using React.js, Redux Toolkit, Express.js, Bootstrap and MongoDB.
- Deployed the full-stack application to AWS EC2 and set up GitHub CI/CD workflow.
- Set up Firebase and MongoDB.
- Wrote testing scripts using React Testing Library and Jest.
- Designed website UI using Figma.
- Adopted Scrum Methodology.

Multiple-user Shared Whiteboard Desktop Application**Feb 2023 - Oct 2023**

University of Melbourne, Melbourne, Australia

- Designed and built a whiteboard desktop app using Java where users can collaboratively draw, insert shapes, erase objects etc.
- This project is an assignment of the subject COMP90015 Distributed Systems of my Master of IT Course at University of Melbourne.