CHRIS YEE SHEN KOAY

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SUMMARY

I am a result-driven software engineer focused on building full-stack application using the latest technologies, such as **Next.js, Typescript, Node.js, LangChain and Framer Motion**. I have two web development internship experience and have experience building e-commerce website, AI chatbot and portfolio website. I hold an **AWS Certified Developer – Associate** 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, 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 EC2, AWS ECS Fargate
Automation: PLC Automation (Keyence), Arduino, Raspberry Pi, ABB RobotStudio
Hardware: 3D printing (UltiMaker Cura), 3D Design (Solidworks)

EXPERIENCE

Software Engineer Intern   **Mar 2024 - Present**
Sincidium, Melbourne, Australia
- Contributed to building a full-stack application using Next.js, Typescript, Tailwind, Python Fast API, Shadcn and PostgreSQL.
- Built a Retrieval-Augmented Generation (RAG) Chatbot using LangChain and Socket.io.
- Deployed multiple docker containers application to AWS ECS Fargate and 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 and performed website load testing using Artillery.

Frontend Web Developer Intern   **Nov 2022 - Feb 2023**
Webby Group, Kuala Lumpur, Malaysia
- Contributed to building a full-stack application using Typescript, React.js, Redux Toolkit, Material UI, 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.
- Automated equipment log file analysis using Python and send automated reporting emails using Python.
- Coached technicians to troubleshoot and fix Intel CPU manufacturing equipment.
- Implement product quality control and preventive measures to ensure high product reliability.

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
Courses: 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, Al Planning for Autonomy, Computer Vision, Natural Language Processing

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

PROJECTS

Portfolio Website - https://chrisyeesk.com   **2024**
- Tech Stack: Next.js, Typescript, Tailwind CSS, Aceternity UI, Framer Motion and Shadcn.
- 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 - http://chris-assistant.com   **2024**
- Chris AI Assistant is an AI chatbot built using Retrieval-Augmented-Generation (RAG) concept. It allows people to ask questions about Chris' skills, work experience and educational background.
- Tech Stack: Next.js, Typescript, Tailwind CSS, LangChain, OpenAI api and Shadcn.
- The domain was purchased through AWS Route 53 and deployed to AWS EC2 using nginx.

E-commerce website (On-going Project)   **2024**
- Tech Stack: Next.js, Typescript, Tailwind CSS, LangChain, OpenAI API and Shadcn.
- Payment page is built with Stripe and user authorization/authentication is handled using Clerk's API.
- Set up autoscaling by using elastic load balancer and distribute traffic to AWS EC2 instances.

Final Year Software Project   **2023**
University of Melbourne, Melbourne, Australia
- Designed and built a full-stack application for an Australian Basketball Team.
- Tech Stack: React.js, Redux Toolkit, Express.js and MongoDB.
- Deployed the full-stack application to AWS EC2 and set up GitHub CI/CD workflow.
- Set up Firebase and configured CORS policy.
- Set up MongoDB database and created CRUD API endpoints using Express.js to interact with the database.
- Wrote testing scripts using React Testing Library and Jest.
- Designed website UI using Figma.
- Adopted Scrum Methodology.

Multiple-user Shared Whiteboard Desktop Application   **2023**
University of Melbourne, Melbourne, Australia – Distributed Systems Subject
- Designed and built a whiteboard desktop app using Java where users can collaboratively draw, insert shapes, erase objects etc.

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)