

SIMON PHAM

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Portfolio Link: <https://simon-portfolio-website.vercel.app/>

FULL STACK DEVELOPER

A full-stack developer with expertise in TypeScript, React, Python, SQL, RestAPI, Cloud Technologies, and Docker, Microservices architecture. Specializing in web technologies with a strong passion for finance, I have experience creating user-centric tools and scalable backend solutions. My hands-on experience includes delivering end-to-end projects and leveraging cloud technology and APIs.

PROFESSIONAL EXPERIENCE

Jung Talents - Melbourne

January 2024 - November 2024

Software engineer

- Implement a robust set of .NET Microservices and APIs to power the consumer(web/mobile) applications.
- Researching, analyzing, and designing the overall architecture of the system application.
- Contributed significantly to the Mentem project utilizing .NET API and Angular.. Played a key role in structuring and managing learner distribution across different categories and groups within the platform.
- Spearheaded the design and development of Carina Eye Care project tailored to the specific needs of clients in the healthcare sectors. Emphasized seamless integration of multimedia content and interactive blog posts to enhance user engagement.

Accomplishments:

- Setup and implemented a full comprehensive Microservice system with a scalability and well maintained infrastructure.
- Built front-end applications with Javascript Frameworks (Angular, React + Bootstrap,...)

Brain Surfers - Melbourne

November 2023 - January 2024

Software engineer

- Project link: <https://tornelo.com/chess>
- Developed e-commerce function for a (chess gaming community)
- Built a backend database solution for the function using Prisma and conducted data seeding.
- Built and integrated frontend components and modals into the existing TypeScript project.
- Integration testing to ensure compatibility of the e-commerce website with the existing project.
- Facilitated collaboration between developers and project managers.
- Actively contributed to frontend development tasks, including UI/UX design, coding, and bug fixing.

Accomplishments:

- On-time development and completion of all necessary system functions
 - Building frontend components that are reusable and compatible with the current project.
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PROJECTS

The Stock Insight

- Project Link: <https://thestockinsight.com/>
- Backend Development: Design and built a scalable backend using Python, implementing dynamic programming for optimized stock index calculations and real-time data retrieval through APIs and web scraping.

- **AWS Cloud Integration:** Deployed a serverless architecture with AWS Lambda, API Gateway, and RDS, optimizing for scalability, performance, and low latency. Configured AWS Amplify, Jenkins for automated CI/CD pipelines to streamline deployment and updates.
- **Frontend Development:** Engineered a responsive UI using Next.js with SSR/SSG for enhanced SEO and performance. Utilized Tailwind CSS for streamlined styling and Chart.js for dynamic, interactive visualizations.

Accomplishments:

- The project is now reach 1000 users and start to show its effectiveness.

The News Podcast

- Project Link: <https://the-news-podcast.azurewebsites.net/>
- Developed an automated system for delivering personalized podcast audio news updates through a Retrieval-Augmented Generation (RAG) AI bot, integrated with a vector database for semantic search and optimized content retrieval.
- Implemented a collaborative filtering recommendation system to personalize the news feed based on user preferences, enhancing user engagement.
- Deployed the application on Azure Cloud, leveraging a Dockerized CI/CD pipeline for efficient containerization, seamless scalability, and streamlined continuous integration.
- Built the system using Blazor framework, ensuring a responsive, component-based architecture with real-time API interactions and state management for a dynamic user experience.
- Optimize content delivery and retrieval processes, improving the platform's speed and accuracy using cloud optimization techniques

Accomplishments:

- Generating 3-minitues podcast base on latest news in 30 seconds.
- Content of the podcast shows promising result

SKILLS

Programming Languages: TypeScript, Python, C#

Database Tools: MySQL, PostgreSQL, MongoDB, RDS/Azure Database

DevOps Tools: Git/GitHub Action, Docker, Jenkins,

Web Development Frameworks and tools: .NET Core, ASP.NET, React.js, Node.js, Express.js, Graph.js, Axios, NextJs, Tailwind css, Prisma

Cloud Technologies: AWS (Amazon Web Services), AWS Lambda, API Gateway, EC2 (Elastic Compute Cloud), Elastic IPs, CloudWatch, S3 (Simple Storage Service), RDS (Relational Database Service), IAM (Identity and Access Management), VPC (Virtual Private Cloud), Azure, Docker deployment.

Project/Product: Agile development experience (Scrum, JIRA, Trello,...)

Interpersonal Skills: Fast learner, Team Collaboration, Effective Communication, Problem-Solving, Adaptability, Time Management.

EDUCATION

AWS associate

AWS Solution Architect certification

Swinburne University of Technology

Bachelor of Computer Science - Distinction - Graduated in December 2023

Awards: Swinburne International Excellence Scholarship

Studied: Artificial Intelligence, Data Structure & Algorithms, Software & Game Design Patterns, Data Visualization, Database Management.

Swinburne University of Technology

Diploma of Information Technology - Distinction