

PHAM Ba Thang

Singapore | bathang02@gmail.com | (+65) 90842704 | pbthang.github.io | linkedin.com/in/pbthang

Education

National University of Singapore

Aug 2020 – Jul 2024

Bachelor of Computing in Computer Science, Honours (Distinction)

- **Relevant Coursework:** Software Engineering Principles and Patterns, Software Testing, Database Systems Implementation, Big Data Systems for Data Science, Cloud Computing, Parallel Computing

Experience

Software Engineer, Anacle Systems Limited – Singapore

Aug 2024 – Present

- Engineer and maintain an enterprise real estate management application for Singapore's housing authority using C#, ASP.NET, and SQL Server, supporting critical financial and operational workflows
- Optimised SQL queries for financial reporting, cutting execution time from 8 minutes to 10 seconds (90% faster) across 300K+ records
- Managed and delivered a client change request valued at over \$10,000, coordinating requirements, implementation, and testing for on-time delivery

Full Stack Developer (Internship), Bank of New York Mellon – Singapore

Jun 2023 – Aug 2023

- Built and delivered a full-stack presentation-creation application using Angular, Python, MongoDB, and Amazon S3, enabling the Innovation Team to showcase products across 5 device types and screen sizes

Software Engineer (Internship), Integro Technologies – Singapore

Jan 2023 – Jun 2023

- Diagnosed and resolved 30+ technical bugs in a Java-based enterprise banking application, improving system stability and reliability
- Containerised and deployed the application to an OpenShift cluster, integrating microservices, logging, tracing, and monitoring components to strengthen production observability

Awards & Achievements

Hack4Good Finalist (Top 10), NUS Google Developer Student Club

Feb 2024

devpost.com/software/green-action-jbr2uh

- Designed and prototyped GreenAction, a gamified volunteer-tracking and data-visualisation platform for the Ground-Up Initiative, using React, shadcn/ui, Tailwind CSS, Node.js, Supabase, and Clerk, advancing to the top 10 finalist round

Projects

PocketPortfolio: github.com/pbthang/cs5224-project

- Led a 4-person team to design and launch a platform that generates and deploys portfolio websites, leveraging OpenAI and serverless AWS (Lambda, API Gateway, S3, CloudFront, CloudFormation, and Amplify)

PeerPrep: github.com/CS3219-AY2223S1/cs3219-project-ay2223s1-g31

- Collaborated within a 4-person Agile team to architect and build a microservice-based, real-time pair-programming platform for coding interview practice, using React, Node.js, MongoDB, SQLite, Redis, Socket.io, and Docker

Portfolio Website: github.com/pbthang/pbthang.github.io

- Designed and built a personal portfolio site with Astro, Tailwind CSS, and Three.js, deployed as a static site to GitHub Pages through a GitHub Actions CI/CD pipeline
- Achieved Lighthouse scores of 100 for accessibility, best practices, and SEO by lazy-loading the 3D scene, subsetting icon fonts, and resolving WCAG contrast and ARIA issues

Go Messaging Backend Application: github.com/pbthang/go_messaging_app

- Architected and prototyped a microservice messaging backend using Go, Kitex RPC, Redis, and Docker
- Built a CI/CD pipeline with GitHub Actions to automate testing and containerization
- Deployed and orchestrated the application on a local Kubernetes cluster

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, C#, HTML, CSS

Technologies: React, Next.js, Astro, Node.js, Express.js, FastAPI, ASP.NET

Databases: PostgreSQL, SQL Server, MongoDB, Redis, Firebase, Supabase

Others: Git, GitHub, GitLab, CI/CD, Docker, AWS, Claude Code