PHAM BA THANG

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EDUCATION

National University of Singapore   2020 - 2024

Bachelor of Computing (Hon.) in Computer Science
Expected date of graduation: May 2024

Relevant Coursework: Software Engineering Principles And Patterns, Software Testing, Database Systems Implementation, Big Data Systems for Data Science, Cloud Computing, Parallel Computing, Introduction to Computer Networks, Introduction to Operating Systems

EXPERIENCE

Fullstack Developer (Internship)   Jun 2023 - Aug 2023
Bank of New York Mellon   *Singapore*

- Delivered an application enabling streamlined content creation for presentations by leveraging Angular, Python, MongoDB, and Amazon S3, which increased efficiency by 50%
- Initiated solutions to system design problems given company infrastructure and regulations

Software Engineer (Internship)   Jan 2023 - Jun 2023
Integro Technologies   *Singapore*

- Maintained and resolved more than 30 technical bugs for existing Java enterprise banking application
- Revamped Dockerfiles, manifest files, and documentation to containerize and launch the application into an OpenShift cluster, including its microservices, logging, tracing, and monitoring components

Frontend Developer (Part-time)   Aug 2022 - Jan 2023
NUS Tropical Marine Science Institute   *Singapore*

- Implemented responsive and accessible components for authentication, onboarding, and contact form of project application with React, MaterialUI, JWT, GitLab CI/CD, and Docker

Teaching Assistant   Aug 2021 - Apr 2023
National University of Singapore   *Singapore*

- Conducted weekly tutorial sessions for introductory programming modules CS1101S and CS1010E
- Graded student assignments and gave timely feedback
- Received an overall score of 4.4 out of 5 in CS1101S teaching feedback report

PROJECTS

Green Action: https://devpost.com/software/green-action-jbr2uh

- Prototyped a gamified volunteer tracking and visualization platform using React, Shadcn, Tailwind CSS, Node.js, Supabase, and Clerk
- Achieved recognition as a finalist, ranking among top 10 participants in the Hack4Good hackathon organized by NUS Google Developer Student Club

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

- Directed a team of 4 to develop a microservice interactive pair programming platform for coding interview practice by adopting React, Node.js, MongoDB, Sqlite, Redis, Socket.io, and Docker
- Initiated system microservice architecture, application design, and project technology stack

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

- Implemented personal portfolio by employing Astro.js, Tailwind CSS, daisyUI, three.js, and Contentful CMS and deployed as an SSR serverless application with Netlify
- Improved website SEO and accessibility by incorporating effective meta tags, sitemap, and adhering to WCAG principles, resulting in a score of 95 for accessibility and 100 for SEO in Lighthouse report

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

- Prototyped a microservice backend application for sending and receiving messages with Go, Kitex RPC, Redis, and Docker
- Built a CI/CD pipeline with GitHub Actions for automated testing and containerization
- Deployed and orchestrated application in a local Kubernetes cluster

EXTRA-CURRICULAR ACTIVITIES

Full-stack Developer   Aug 2023 - Present
NUS Google Student Developer Club   *Singapore*

- Developed a pro-bono application to streamline processes of login-less donation, campaign management, and data analysis for Caregivers Alliance Limited using Typescript, Next.js, PostgreSQL, Prisma, and Stripe API

Student Cluster Leader   Jan 2022 - May 2023
NUS Prince George's Park Residences   *Singapore*

- Oversaw the well-being and acted as first point of contact for problem resolution of 15+ residents
- Organized level and block events to foster relationships and establish a strong sense of community among residents

TECHNICAL SKILLS

Programming Languages	JavaScript, Typescript, Python, Java, C++, Go
Full-stack Development	HTML, CSS, React, Next.js, Node.js, Express.js, FastAPI
Database Systems	PostgreSQL, MongoDB, Redis, Firebase, Supabase
DevOps	Git, GitHub, GitLab, CI/CD, Docker, AWS, Kubernetes
Other skills	English and Vietnamese (native), Agile, Scrum