Papattarada Apithanangsiri

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Relevant Links: LinkedIn | GitHub
Programming Languages: Python, Java, JavaScript, TypeScript, C++, HTML, CSS, SQL
Frameworks: Tensorflow, scikit-learn, NumPy, pandas, React, Next.js, Express.js, Vue.js
Technologies: Git, PostgreSQL, SQLite, MongoDB, Cypress, AWS, Docker, Kubernetes, GitLab CI, GitHub Actions, REST

EDUCATION

National University of Singapore **August 2020 - May 2024**

- Bachelor of Computing (Honours) in Computer Science with ASEAN Undergraduate Merit Scholarship

WORK EXPERIENCE

Government Technology Agency (GovTech) | Testimonial **January 2023 - June 2023**

Software Engineer Intern - Analytics.gov

- Implemented streamlined CI/CD processes using GitLab CI, Docker, Kubernetes, AWS CodePipeline and AWS CodeBuild to automate webpage deployment onto an EKS cluster
- Incorporated security scanning into the CI/CD pipeline by utilizing Aquasec Trivy scanners to scan the built image for vulnerabilities and implemented Static Application Security Testing (SAST) scanner to analyze the codebase
- Developed pre-signed URLs to launch SageMaker Studio from third-party application using AWS Lambda, Boto3 library in Python, IAM, OAuth 2.0 code grant flow, and integrated with API Gateway through Lambda proxy, leveraging Cognito App Client for authorization
- Utilized React, Next.js, Tailwind CSS, and various frontend packages to revamp Analytics.gov landing page

Shopee **June 2022 - August 2022**

Data Analytics Intern - Affiliate Data Analytics

- Meticulously automated data collection of 400,000 posts and 700 images using web scraping
- Leveraged fasttext and keyBERT to train a text classification model to classify facebook posts with up to 70% accuracy
- Utilized transfer learning and implemented classifier layer on MobileNetV2 with up to 90% accuracy

RepoSense | Contribution **June 2022 - September 2022**

Open Source Contributor

- Implemented frontend search and filter functionalities with Vue.js, Pug, and SCSS, benefiting over a million users
- Conducted end-to-end testing using Cypress to ensure robustness and reliability
- Collaborated with experienced developers through code review and effectively communicated through GitHub issues

CS2103 Software Engineering | Tutorial Materials **August 2022 - Present**

Undergraduate Teaching Assistant

- Covered object-oriented system analysis, modeling, design, implementation, and testing, emphasizing software development tools and techniques such as UML, program specification, and testing methods
- Obtained a teaching feedback score of 4.7/5.0 against the department average of 4.2/5.0

CS3219 Software Engineering Principle and Patterns **July 2023 - Present**

Undergraduate Teaching Assistant

- Covered in-depth discussion on software architectural design, best practices, requirement elicitation, specification, design decision exploration, and patterns

CP2106 Independent Software Development Project (Orbital) **May 2022 - Present**

Undergraduate Teaching Assistant

- Mentored 17 teams of first year students on the design, execution, and implementation of software products

PROJECTS

PeerPrep | Grade Obtained: A+ | **Github Code** | (React, MongoDB, SQLite, Cypress, GitHub Actions, Docker, Socket.io)

- Developed a full-stack collaborative code interview platform with a microservices architecture
- Implemented CI and Cypress end-to-end testing, and orchestrated containerized deployment with Docker
- Followed software development best practices, including code reviews and adherence to coding standards

ArchDuke | Grade Obtained: A+ | **Github Code** | **Peer Review** | (Java, JUnit, Gradle)

- Training LSTMs on historic intraday data at 1 minute intervals to create an automated stock bot
- Using React and PostgreSQL to develop full-stack application for market simulations and bot trading visualizations

AWARD & CERTIFICATION

AWS Certified Solutions Architect - Associate | Certification
SMU@Computing Award
Outstanding Presentation Award @ RVRC Action for Sustainability Symposium