AIKEN WONG XIHENG

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Available from early May 2023 – end July 2023 on a full-time basis

EDUCATION

National University of Singapore (NUS)   Aug 20 – Present

- Undergraduate, Bachelor of Computing in Computer Science (Hons)
- Current CAP: 4.51/5.0
- Expected date of graduation: May 2024

Raffles Institution   Feb 16 – Dec 17

- Achieved 5 GCE 'A' Levels Distinctions for Chemistry, Economics, Mathematics, Physics and Project Work

WORK EXPERIENCE

WorkClass, Full Stack Web Developer   May 22 – Present

- Developed and maintained products and features for both the employer and jobseeker websites, implementing changes such backend refactoring, UI modifications and third-party integrations
- Found opportunities for Search Engine Optimization (SEO) and implemented changes that improved Performance and SEO page scores on Google Lighthouse by more than 30 points, using strategies like Static-Site Generation, Server-Side Rendering and Lazy Loading
- Implemented automation scripts with GPT3 to auto generate website content from SEO keywords to improve Google search rankings
- Streamlined and parallelized frontend Cypress tests using GitHub Actions as CI provider, reducing combined build, deploy and test times by over 70% and speeding up development time for the entire team
- Containerized Cypress tests with Docker and deployed them as jobs on AWS servers to monitor production site Core Web Vitals (CWVs) as well as to detect flaky tests and potential software regressions
- Utilized: TypeScript, ReactJs, NextJs, Gatsby, Django, MySQL, Cypress, AWS, GitHub Actions, Docker, AntDesign, GPT3, Firebase Authentication, Google Search Console, Google Analytics, NumPy, GraphQL

PROJECTS

Aikenwx.co (Personal Website)   Nov 22 – Dec 22
- Fully developed personal website from scratch, including a Vercel hosted frontend as well as a backend server and database set up from a Raspberry Pi with Nginx configured reverse proxy for security
- Utilized: TypeScript, ReactJs, TailwindCSS, PostgreSQL, Nginx, Vercel, NextJS, Express.js

Fastcards (Personal Project)   Dec 21 – Jan 22
- Designed and built the UI/UX, database, storage and backend endpoints for the application
- Implemented authentication for users, including forget-password and update-profile features
- Utilized: TypeScript, ReactJs, React-Bootstrap, Firebase Realtime Database, Firebase Storage, Firebase Authentication, Vercel

LingoGo! (CS2103T Software Engineering)   Sep 21 – Nov 21

- Collaborated in a brownfield project team setting to develop a JavaFX-based digitized flash cards application using Java, JavaFX, and Gradle, with JUnit for testing
- Utilized: Java, JavaFX, JUnit, Gradle

NoteWorthy (CP2106 Independent Software Development - NUS Orbital)   May 21 – Jul 21
- Designed and built interactive front-end UI/UX features such as draggable content and context menus
- Implemented Express-GraphQL back end with MongoDB for online storage and management of notes
- Utilized: JavaScript, TypeScript, ReactJs, Semantic-UI, Express, Apollo, GraphQL, MongoDB, Heroku

VOLUNTEERING

Raffles Hall OCIP Project Trailblazer   May 21 – Jul 21

- Collaborated with ECO Vietnam group (NGO) to design and hold online lessons for Vietnamese children and teenagers during the period of the Covid-19 travel ban

ADDITIONAL INFORMATION

- Fluent in English and Mandarin
- Proficient/Familiar with: Java, JavaScript, TypeScript, Python, HTML, Git, ReactJs, CSS, NextJs, Django, SQL, Cypress, GitHub Actions, Docker, NumPy, Figma, Google Search Console, Google Analytics, C, Express-GraphQL, JavaFX, MongoDB, Vercel, Firebase, Figma, GPT3, Raspberry Pi