Sin-Tat Fan

Software Developer *(MDes in Interaction Design, BSc in Computer Science)*

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Software Developer with 9+ years of experience in crafting elegant technology solutions with JavaScript. Obtained a Master's degree in Design with solid knowledge in UI/UX Design. Proven experience to collaborate in an agile and close-knit team with designers and other developers to build high quality products throughout development process. Eager to help companies engaging and professional products.

Skills

- **Web Frontend:** HTML, CSS, SCSS, Tailwind CSS, JavaScript, Webpack, React, Next.js, Vue, GraphQL
- **Backend / API Development:** Node.js, TypeScript, NestJS, Express, PHP, Laravel
- **Database:** (Relational) MySQL; (NoSQL) MongoDB
- **Infrastructure:** AWS, Azure, Firebase, DigitalOcean, MongoDB Atlas, Redis
- **Others:** Figma, Adobe XD, Flutter (Dart), OpenAPI, GitLab Runner, GitHub Actions

Professional Experience

Senior Software Engineer
Innovation Network & Design (Group) Limited, *Jan 2021 - Present*

- Developed and optimized a performant admin portal with **React** (**JavaScript**) to increase frontend loading speed by 4x and reduced 50% of data transfer cost.
- Planned and implemented an e-commerce system from scratch in microservice architecture with **TypeScript**, **Node.js**, **MongoDB**, **AWS** and **Vue** to handle over 1,000 concurrent requests with 70% infrastructure cost reduction.
- Collaborated with backend engineers to design **RESTful API** and write documentations with **OpenAPI**.
- Managed CI/CD workflows on **GitLab Runner** to test and deploy software.
- Supervised a development team of five to manage deliverables of web development projects, provide mentorship and code reviews to ensure quality of code, and discuss about technical decisions.

Research Fellow (3-month Contract)
The Hong Kong Polytechnic University, *Oct 2022 - Dec 2022*

- Communicated with the project leader to refine the requirements of an interactive survey system.
- Worked with UI/UX designers to create the UI/UX design, ensure the feasibility of technical implementation, and improve the usability.
- Developed an interactive frontend in SPA with **React** and a RESTful API backend with **Laravel** (**PHP**).
- Developed a CMS with **Next.js** (**React**) for managing questionnaires to reduce 40% time of creating new surveys.

Full Stack Software Engineer
Innovation Network & Design (Group) Limited, *Aug 2017 - Dec 2020*

- Collaborated with other engineers to bring modern tech stacks (**Webpack**, **Vue.js** and **Flutter**) to the company and increased 40% of positive comments from clients.
- Developed a reusable admin panel package with **Laravel** and **Vue.js** for internal use to eliminate repetitive work and reduce 20% of development time in new projects.
- Assisted the support team to troubleshoot and resolve problems based on users' feedback.

Web Developer
Innovation Network & Design (Group) Limited, *May 2013 - Jul 2017*

- Implemented web frontend in **HTML**, **CSS** and **JavaScript** in accordance with design specifications.
- Reviewed project requirements to develop web backend in **PHP** with **Laravel**.

Education

Master of Design (Interaction Design)
The Hong Kong Polytechnic University, *2021 - 2022, Graduated with Distinction*

- Collaborated with designers in diverse backgrounds to apply Design Thinking approach to conduct user research and synthesize insights, build prototypes, such as UI/UX design wireframes, and acquire theories of human-computer interaction and user experience.

Bachelor of Science (Computer Science)
The Chinese University of Hong Kong, *2013 - 2017*

- Focused on Data Structure, Algorithm, Database Systems and Software Engineering.