WILSON FONG

Software Developer
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SUMMARY

Frontend-leaning Full-Stack Software Developer with 4+ years of experience building scalable web applications using React, TypeScript, and .NET Core. Specialized in frontend architecture, performance optimization, and accessible UI development, with additional experience designing REST APIs, optimizing data payloads, and working with ORM-based backends. Proven ability to modernize legacy systems, improve application scalability through virtualization and API efficiency, and deliver high-quality features in Agile, cross-functional, fully remote teams.

TECHNICAL SKILLS & TECHNOLOGIES

Languages: TypeScript, JavaScript (ES6+), C#/.NET, HTML5, CSS3, SQL
Frameworks/Libraries: React, React Native, React Aria, Redux, MobX, Ruby on Rails, Express
Tools/Technologies: Git, AWS, Firebase, Docker, Elasticsearch, REST API, GraphQL, Prisma, Windsurf (AI)
Testing/Deployment: React Testing Library, Vitest, Storybook, CI/CD pipelines, Sentry, Azure DevOps

FULL-TIME SOFTWARE ENGINEERING EXPERIENCE

04/2025 - 03/2026 **Software Engineer** - Calabrio
React, .NET Core, Tailwind CSS, React Aria, Vitest, Microsoft SQL Server, Azure DevOps, Windsurf

- Migrated a legacy Windows desktop application to a modern web platform using **React, .NET, and Tailwind CSS**, improving scalability and long-term maintainability
- Built complex, high-performance data interfaces using **React** and **AG Grid** to support large operational datasets with dynamic filtering, sorting, and analysis
- Improved frontend performance and scalability by redesigning API data contracts to fetch only required data and implementing virtualization (**react-window**) for large datasets, refactoring components to minimize re-renders and efficient state management
- Wrote unit and integration tests using **React Testing Library** and **Vitest** to ensure application stability and reduce regression issues in CI/CD pipelines.
- Collaborated in an Agile development environment using **Azure DevOps** for sprint planning, code reviews, and CI/CD workflows
- Developed and integrated RESTful APIs to support frontend features and enable reliable data workflows across the application
- Designed, developed, and maintained scalable React features in an Agile SDLC environment, collaborating closely with backend engineers through code reviews and pair programming to maintain production stability and promote React best practices

09/2023 - 04/2025 **Intermediate Developer** - Silver Icing
React, React Native, Redux, PHP Slim, Docker, MySQL, Elasticsearch, Sentry

- Built and maintained **React Native** mobile application (SI In Real Life) features while improving application reliability through structured state management and modular component architecture
- Spearheaded the development of new features to the mobile app, including streamlining content graphics and sharing, as well as integrating the **Facebook API** for sharing to groups
- Integrated a push notifications system using **OneSignal**, with rich notifications including images and action buttons
- Developed features for the internal back office tools, including the migration of the daily marketing media page from **WordPress** to **React**

08/2022 - 08/2023 **Software Developer -** AgileIS

Figma, React Native, Node.js/Nest.js, Apollo GraphQL, PostgreSQL, Prisma, Azure

- Developed UI components and backend API improvements for CAPT, a cross-platform iOS, Android, and web application built with React Native, NestJS, GraphQL, and PostgreSQL.
- Managed mobile releases using **Expo Application Services (EAS)**, including build configuration, versioning, and deployment to the Apple App Store and Google Play.
- Created new UI components and used **Storybook** for testing them in iOS, Android and web
- Developed a CSV importer feature using **csv-parser** and **BullMQ** for queues

08/2021 - 08/2022 **Full Stack Developer** - Curovate

React Native, MobX, Ruby on Rails, PostgreSQL, AWS

- Implemented new app features leading to a 20% increase in monthly revenue and an increase in user adherence
- Managed deployment of the app through the App and Play Stores and **AWS** Elastic Beanstalk
- Leveraged technologies such as **Firebase** Crashlytics and Google Analytics for debugging and analytics
- Created a customer-facing chat portal web app using **React**, **Express** and **PostgreSQL**

EDUCATION

Master of Mathematics for Teachers - University of Waterloo

- Computer science courses taken include: Computer Science: A Mathematical Perspective, Algorithms, Cryptography

Certificate in Full Stack Web Development – York University School of Continuing Studies

Full Stack Web Developer Co-op – Hatchways.io

Bachelor of Education (Mathematics and Economics) - OISE, University of Toronto

OTHER EXPERIENCE

09/2018 – 08/2021 **Secondary School Mathematics Teacher** – Bronte College

- Taught MDM4U Data Management, MCV4U Calculus, and MHF4U Advanced Functions
- Hosted the game coding club teaching introductory game development using the Phaser JavaScript framework
- Taught a diverse international student body with a strong emphasis on STEM subjects

08/2016 - 06/2018 **Math Teacher** - K. International School of Tokyo

- Taught grades 6-10 math, using both the IBMYP and IGCSE curriculums
- Coached the math contest club and responsible for admissions testing

08/2015 - 06/2016 **Middle and Secondary Teacher** - Singapore International School, Hong Kong

- Taught middle school mathematics and secondary school economics using the Singaporean curriculum, an academically-intensive curriculum emphasizing rigorous teaching of concepts with a research-based approach

08/2012 - 06/2015 **Economics and Math Teacher** - Delia School of Canada

- Taught secondary school math and economics using the Ontario curriculum to a diverse student body including English language learners and students of a variety of nationalities
- Coached the cross-country team and track and field