Yu Zhou Zhang

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Profile

Software engineer with 1+ years of professional experience, including contributions to FDA-cleared medical imaging products. Built real-time web apps and regulatory-compliant platforms using TypeScript, React, and Python. Holds a Computing MSc with distinction and currently deepening expertise in mathematics. Former concert pianist and passionate educator turned developer, blending creativity with technical rigour.

Experience

Front-End Software Engineer, Motilent – London, UK   Apr 2024 – present
- Contributed to the design and development of key features in a 3D medical imaging platform
- Prepared critical 510(k) documentation for FDA submission, playing a key role in regulatory clearance and ensuring compliance with medical software standards
- Prototyped and refined complex UX workflows using Figma, improving clarity and speed of diagnostic tasks
- Built performant and reliable front-end applications using TypeScript, React, and Python within a safety-critical, regulated environment.

Education

Queen Mary University of London, MSc in Computing and Information Systems (Distinction)   Sept 2022 – Sept 2023

Royal Academy of Music, MMus in Piano Performance   Sept 2020 – July 2022

Royal College of Music, BMus in Piano Performance   Sept 2018 – July 2020

Birkbeck College, BSc in Mathematics and Statistics (in progress, part-time)

Projects

Duet - Real-Time Admin & Bookkeeping Tool   2025
- Created a web app using TypeScript, React, Firebase, and TailwindCSS to streamline income and expense management for self-employed business partnership.
- Designed synchronised interfaces for real-time entry of income and expenses, with support for CSV exports for book-keeping.
- Improved financial transparency and coordination, replacing spreadsheets and manual records with a mobile-friendly, real-time system.

Perpetuo - Teaching Studio Management Web Application   2023
- Built a full-stack app using React.js, Node.js (Express), and MongoDB to manage scheduling, payments, and student records for a private teaching studio
- Replaced scattered spreadsheets and paper diaries, reducing admin time by 5+ hours/week
- Features include secure login, dynamic student profiles, and a responsive, mobile-friendly UI used in a live teaching business.

Odin Project Portfolio - Self-directed Web Dev curriculum of hands-on projects   2023
- Crafted dynamic and responsive web apps showcasing proficiency in working with APIs, vanilla JS DOM manipulation, OOP, CSS flexbox/grid.

Skills

Programming: Typescript, React.js, Python, HTML, CSS, JavaScript (ES6+), AWS, Webpack, SQL, Figma, Git, Jest

Certifications

- AWS - SAA-C03 - Solutions Architect Associate
- OpenEDG Python Institute - Programming with Python Professional Certificate
- GIAC - SEC401 - Security Essentials
- GIAC - SEC275 - Foundational Cybersecurity Technologies
- Microsoft - AZ-900 - Azure Fundamentals