

# Yu Zhou Zhang

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## Profile

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Front-End Software Engineer with strong proficiency in React and TypeScript, delivering high-performance, production-grade interfaces in medical, education, and business domains. Comfortable across the stack with Python, Go, and cloud platforms (AWS, Firebase). Proven track record building tools that reduce manual effort, improve UX, and integrate real-time data. Seeking to deepen full-stack capabilities and solve meaningful user-facing problems.

## Experience

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**Front-End Software Engineer**, Motilent – London, UK

Apr 2024 – present

- Developed a high-fidelity DICOM web viewer in React & Typescript, enabling clinicians to perform detailed analysis of complex medical imaging data directly in the browser, eliminating the need for desktop-specific software.
- Built and automated a React testing suite (Jest, RTL) for clinical UI verification, reducing regression testing time by 30% and increasing release confidence.
- Designed and built a structured reporting interface that streamlined the creation of complex medical reports, reducing user input errors and significantly improving the consistency of clinical documentation.

## Education

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**Queen Mary University of London**, MSc Computing and Information Systems (Distinction)

2023

**The Odin Project**, Comprehensive Full-Stack JavaScript Curriculum

2023

**Royal Academy of Music**, MMus Piano Performance

2022

**Royal College of Music**, BMus Piano Performance

2020

**Birkbeck, University of London**, BSc Mathematics and Statistics (Part-time)

Ongoing

**Chetham's School of Music**, A-Level Mathematics (A\*), Further Mathematics (A\*), Music (A\*)

2015

## Projects

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**Pitchspace** - Real-Time Music Theory & Note Visualisation Tool

- Created a responsive music education tool using React and TypeScript, with interactive components and core logic rigorously tested using Jest and React Testing Library.
- Integrated the Web MIDI API and Pitchy.js library to process complex, real-time data streams, providing users with instant audio-visual feedback.

**Perpetuo** - Teaching Studio Management Web Application

- Architected and built a full-stack web application using the MERN stack (MongoDB, Express, React, Node.js) to centralise business operations for a teaching studio.
- Automated scheduling, payment tracking, and student record management, resulting in a reduction of administrative work by over 5 hours per week.
- Implemented a secure user authentication system and developed a responsive, mobile-first UI used in a live business.

## Technical Skills

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- Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3, Python, Go
- Frameworks & Libraries: React.js, Node.js, Express.js, Next.js, Jest, React Testing Library (RTL)
- Tools & Platforms: Git, CI/CD, AWS, Azure, Firebase, MongoDB
- Concepts: RESTful APIs, Responsive Web Design, UI/UX Design Principles, Agile Methodologies

## Certifications

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- Baruch College, CUNY - Pre-MFE Program: Adv. Calculus and ML with Fin. Eng. Applications (Distinction)
- AWS - SAA-C03 - Solutions Architect Associate
- GIAC - Security Essentials (SEC401), Foundational Cybersecurity Technologies (SEC275)
- Microsoft - AZ-900 - Azure Fundamentals