Timothy Tian Ye Chen

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Education

BSc (Hons) in Computer Science from UAL — Sep 2024 - 2027

CertHE in Creative Computing from Goldsmiths University of London — Sep 2021 - Jun 2023

Work Experience

3D Visual Artist - Self-Employed, London — Jan 2016 - 2024

- Used Cinema4D and Adobe Photoshop to produce 3D visual assets for companies and clients.
- Produced high-quality 3D renders while optimising rendering times through post-processing and workflow techniques.
- Managed end-to-end project delivery for personal clients and agency-sourced projects, including client requirements, feedback cycles, and deadlines, ensuring high-quality outcomes.

Barista - Chatime, London — Jul 2024 - Jan 2025

- Prepared a variety of drinks to standards while maintaining speed and accuracy during busy periods.
- Managed stock levels and ensured availability of ingredients and supplies.
- Delivered friendly, efficient customer service and assisted with orders and queries.

British Computer Society (BCS) - Student Member — Apr 2025 - Present

- Student member of the British Computer Society (BCS), the UK's chartered institute for IT professionals.
- Engaged with resources on best practices, professional ethics, and emerging trends in computing and software development.

Projects

Full Stack Movie Database Web Application

- Developed a full-stack movie database app using React, Astro, TailwindCSS, Flask, SQLAlchemy, Alembic, Gemini LLM API and TMDB API integration.
- Built RESTful Flask APIs with SQLAlchemy and Alembic for efficient data handling.
- Designed responsive UI with Tailwind CSS and Astro, using SSR and CSR for optimised performance.
- SSR/CSR and performance optimisation with Astro.
- Integrated Gemini API for movie sentiment analysis and Chart.js for analytical dashboards

GitHub Repository: https://github.com/t1anzn/cinemind

AI Study Companion App

- Developed a cross-platform mobile app with React Native, TypeScript, Native and Firebase, that converts lecture slides into simplified study packs.
- Leveraged Gemini LLM API for intelligent content summarisation, categorisation, and efficient storage.
- Designed a user-friendly interface with Nativewind for seamless photo capture, content generation, and organised study management.
- Implementing user authentication with Firebase (In progress)

Smart IoT Watering System

- Arduino Uno R4 Wi-Fi prototype with soil moisture & ultrasonic sensors and water pump control, using MQTT and Firebase for connectivity.
- Developed firmware and React Native app (TypeScript) for monitoring, scheduling, and manual overrides.
- Implemented MQTT-based wireless communication for real-time control, data storage, and plant history visualisation.

GitHub Repository: https://github.com/t1anzn/SmartWateringCompanion

Skills

Languages: HTML/CSS, Javascript, Python, SQL, C++ (JUCE, openFrameworks)

Frontend: React, Astro, Next.js, Tailwind CSS

Backend: Flask, SQLite, Firebase