

Daniel Shi

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, C++, Java, R, MATLAB

Frameworks/Libraries: React, Next.js, Framer Motion, Tensorflow, OpenCV, TailwindCSS, ShadCN, Aceternity

Tools & Technologies: Git, GitHub, theMealDB JSON, Excel, Figma, Draw.io

PROJECTS

Front-End Developer – Personal Portfolio Website | *Next.js, TailwindCSS, TypeScript* Feb 2025 – Present

- Designed and deployed a TypeScript-based portfolio using Next.js, TailwindCSS, and Framer Motion, deployed on Vercel
- Developed custom UI components (Hero.tsx, grid.tsx) and animated layouts to enhance site engagement and visual storytelling.
- Structured project data in data/index.ts and optimized dynamic content rendering for faster page load times.

ML Engineer – Receipt OCR AI System (CMPT 310 Final Project) | *Python, ytesseract, OpenCV* Jun 2025 – Aug 2025

- Developed a modular, parameterized image preprocessing pipeline (grayscale, adaptive binarization, skew correction) with k-fold cross-validation to optimize OCR accuracy on real-world receipts
- Built an automated testing framework comparing extracted totals to ground truth, integrating bounding box visualization for debugging
- Presented at a faculty demo with a professional poster and Draw.io system diagram detailing preprocessing, OCR, and validation stages

UI/UX Developer – Travelytics (CMPT 276 Final Project) | *Next.js, TailwindCSS, TypeScript* May 2025 – Aug 2025

- Designed responsive UI layouts and mid-fidelity wireframes in Figma, implementing them in Next.js with TailwindCSS styling
- Integrated GeoNames and OpenWeatherMap APIs to display real-time demographics, weather forecasts, historical trends, and air quality data
- Customized and styled reusable library components (ShadCN, Lucide) and documented API data flow and UI architecture with Draw.io system diagrams

Front-End Developer – Static HTML/CSS Portfolio Website (CMPT 276 Mini-Project) | *HTML, CSS, JavaScript* Jun 2025

- Built a personal portfolio website as part of a course mini-project and deployed it using GitHub Pages
- Followed Agile SDLC with a Kanban board to organize tasks, milestones, and progress
- Implemented custom wireframes, multi-section layout, and accessibility-compliant content
- Used GitHub issues, labels, project board, and 30+ meaningful commits to meet course deliverables

Web Developer – Meal Fetcher (DreamHacks 2025) | *Next.js, TailwindCSS, TypeScript* Mar 2025

- Constructed a dynamic meal-finding web app using Next.js and theMealDB API, allowing users to search and retrieve custom meal data seamlessly
- Designed modular UI components with ShadCN and TailwindCSS, for accessibility, code reusability
- Implemented error handling in utils.js, ensuring reliable API interactions and improving data retrieval consistency.

EDUCATION

Simon Fraser University – BSc. Computer Science – Software Systems May 2024 – Present
Burnaby, BC

University of Victoria – Coursework in Computer Science Sept 2023 – May 2024
Victoria, BC

EXPERIENCE

Senior Cashier/Barista – Presotea Sept 2021 – Aug 2023
Delta & Burnaby, BC

- Accurately managed daily cash transactions totaling \$1,000+ while maintaining operational speed
- Mentored and trained over 10 new staff on POS and barista procedures
- Coordinated with team during peak hours to maintain efficiency and reduce wait times
- Ensured inventory restocking and equipment maintenance to meet quality standards

VOLUNTEER EXPERIENCE

Media Coordinator – SFU Canadianized Asian Club Sept 2024 – Present
Burnaby, BC

- Captured and edited event photos using Adobe Lightroom and Photoshop, contributing to visually cohesive campaigns that improved event turnout
- Coordinated with executive team members to ensure content deadlines were met, supporting successful promotional strategies.

INTERESTS

Photography — Grappling — Boulderling — Calisthenics