Shiyu (Gina) Xu

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Technical Skills

- **Languages**: JavaScript, TypeScript, Python, Java
- **Frontend**: HTML, CSS (SCSS), React.js, React Native
- **Backend**: Node.js, Next.js, Prisma, RESTful APIs, Firebase Authentication
- **Databases**: PostgreSQL, MongoDB, Firebase Firestore
- **Tools**: Git & GitHub, Postman, Figma, Vercel

Education

Northeastern University | M.S in Computer Science   *Jan 2024 – Present | Vancouver, BC*
- **Coursework**: Web and Mobile Development (React, React Native), Database Management (MySQL, MongoDB), Algorithms and Data Structures, Object-Oriented Design (Java)

Nanchang University | B.A in History   *June 2019 – June 2023 | Nanchang, China*

Projects

Tomatch | *React Native, TypeScript, Firebase, OpenAI API, Google API*   *Feb 2025 – Present*
AI-powered grocery price tracking and trend analysis mobile app for smarter shopping decisions
- Developed an **AI-powered scanning feature** using OpenAI API and Google Vision API, enabling seamless price logging through image recognition and automatic data formatting.
- Designed and developed the mobile front-end with **React Native (TypeScript)**, ensuring a seamless and intuitive user experience.
- Built a backend with **Firebase Firestore** to store and manage historical price records, allowing users to track price fluctuations.
- Implemented a supermarket location-based price comparison system using Google Maps API.

Healthcare Appointment System | *MERN, React, Javascript, MongoDB*   *Mar - Apr 2025*
Full-stack web healthcare appointment management system with real-time scheduling and role-based access control
- Designed and developed a full-stack web application using **React** frontend and **Node.js/Express** backend to manage healthcare appointments and prescriptions.
- Implemented secure authentication and authorization with **Firebase Authentication** and enforced **role-based access control (RBAC)** for patients, doctors, and administrators.
- Developed **RESTful APIs** with full CRUD operations for user management, appointment scheduling, and prescription handling.
- Built an interactive **admin dashboard** with real-time **data visualization** (charts and tables) to monitor system activities and analyze healthcare trends.

Experience

TravelSmarts Luggage & Accessories | Sales Associate   *July 2024 – Present | Burnaby, BC*
- Communicate fluently with customers and team members in an English-speaking retail environment, providing product recommendations and resolving issues effectively.
- Proactively identify opportunities to improve daily operations, suggesting workflow optimizations and tool enhancements.
- Utilize Microsoft Excel and Word to support task management, internal documentation, and daily operational tracking.