Towhid Murad

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TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, JavaScript, TypeScript, HTML, CSS, Swift, Ruby
Frameworks: React, Node.js, Spring, React Native, Expo
Libraries: JWT, @react-native-voice/voice
DevOps/Cloud & Tools: Git, Docker, VS Code, PyCharm, Xcode, Android Studio, Expo Go
Databases: PostgreSQL, MongoDB

TECHNICAL PROJECTS

BP Buddy — Hypertension management prototype   *May 2025 – Aug 2025*

    Tech: Figma, Balsamiq, Human-Centered Design

– Built a mid-fidelity mobile prototype for blood pressure tracking, Food Check, and medication reminders.
– Created interactive flows in Figma for BP logging, QR syncing, food safety check, and medication reminders.
– Applied HCI principles including recognition over recall, error prevention, and emotional design.
– Collaborated in a team of 4, contributing to prototyping, walkthrough analysis, and final report documentation.

EyeSpy — Vision testing with TrueDepth   *Sep 2024 – Dec 2024*

    Tech: React Native, TypeScript, Apple TrueDepth, Speech Recognition

– Built a cross-platform vision testing app with dynamic optotype sizing driven by real-time TrueDepth distance.
– Added speech input via @react-native-voice/voice for hands-free letter entry and faster test flow.
– Improved speech input success rate to **95%** in quiet rooms; maintained stable optotype sizing at **60–90 cm** distances.
– Designed left and right eye flows with clear prompts and accessibility-minded UI.
– Collaborated in a team of 5 on front-end features, debugging, and performance tuning.

GoGym — Gym management web app   *Jan 2024 – Apr 2024*

    Tech: HTML, CSS, JavaScript, Java Spring Boot, PostgreSQL, Docker

– Shipped a role-based gym management web app for occupancy tracking, check-in/out, and equipment management.
– Implemented JWT authentication and REST APIs in Spring Boot with a normalized PostgreSQL schema.
– Built a responsive React UI with reusable components and client-side routing.
– Reduced login auth latency by **30%** after JWT middleware refactor.
– Worked in a team of 5 using GitHub and short Agile sprints.

NON-TECHNICAL EXPERIENCE

Family-Owned Retail Business   Jeddah, KSA
Cashier & Warehouse Assistant   *Jul 2019 – Aug 2023*

– Processed customer transactions, managed cash handling, and maintained accurate records.
– Assisted customers by answering questions, resolving concerns, and ensuring a smooth experience.
– Handled inventory tasks, stock counting, and kept storage areas organized.
– Restocked shelves by moving goods from warehouse to store to maintain availability.
– Balanced cashier duties and logistics in a fast-paced retail environment.

EDUCATION

BSc. in Computing Science — GPA: 3.55/4.33   Sept 2023 - Present
Simon Fraser University, Burnaby, BC

INTERESTS

Soccer, tinkering with cars and automotive projects, video games (strategy & simulation), photography