NAM NGUYEN

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Technical Skills

Programming Languages: Python, Java, HTML, CSS, JavaScript, TypeScript, SQL
Libraries/Frameworks & Databases: React.js, React Native, Node.js, Express.js, Tailwind CSS, Spring, PostgreSQL, MongoDB
Tools & Productivity Software: Visual Studio Code, Figma, Git, Docker, Bootstrap

Projects

NamNeedsTODO | *MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Docker*　　　　　May 2025 – Present

- Built a full-stack task management system using the MERN stack that exposed RESTful APIs to support task CRUD operations and status toggling through a responsive Tailwind CSS interface.
- Engineered a modular backend in Express and Node.js by separating routes, controllers, models, and middleware, and introduced centralized error handling aligned with object-oriented principles.
- Integrated MongoDB to enable scalable and schema-less task storage with support for dynamic fields.
- Containerized the app with Docker and configured Nginx as the production web server within Docker Compose to serve the frontend and proxy backend requests.

Roaming App | *React Native, Expo, Express.js, Firebase, Cloudinary, MapLibre, Google Gemini*　　　　　February – May 2025

- Developed a full-stack mobile app using React Native, Express.js, and Firestore while delivering 95% of planned features in 8 weeks and implementing secure user authentication with Firebase.
- Optimized media intake with Expo ImagePicker by enforcing a 4:5 aspect ratio and 100% compression, reducing Cloudinary storage usage and improving image rendering.
- Incorporated MapLibre to visualize users' geotagged posts through interactive and personalized travel histories.
- Integrated Google Gemini as a chatbot to generate personalized travel captions and suggestions from uploaded photos.

Hotelytics | *Python, GeoPandas, Streamlit, OSMnx, Folium, Networkx, scikit-learn*　　　　　April 2025

- Performed exploratory spatial analysis on 80+ Vancouver hotels using weighted amenity scoring system within a 350m buffer.
- Integrated Streamlit with Folium and OSMnx layers for dynamic UI filtering and optimized walking tour visualization.
- Clustered 17,000+ amenities using DBSCAN and visualized spatial zones with convex hulls to reveal urban activity patterns.
- Designed and compared Travelling Salesman Problem (TSP) and Greedy Nearest Neighbour (GNN) routing algorithms on pedestrian networks from OSMnx, improving tour efficiency by ~15% with TSP solutions.

Realtor Web Application | *HTML, CSS, JavaScript, Java, Spring, PostgreSQL*　　　　　January – April 2024

- Led an Agile team of 5 to develop a full-stack web app that enhanced a realtor's digital presence and client engagement.
- Took ownership of frontend development and UI/UX design, mentored teammates, and worked directly with the client to gather requirements, leading to a 95% client satisfaction rating.
- Integrated property mapping using Google Maps API and built a secure backend with PostgreSQL and Spring Boot.

Non–Technical Experience

Cashiers and Customer Service Representative | *Canadian Tire Grandview*　　　　　November 2021 – April 2024

- Collaborated effectively with team members and acted as an intermediary between customers and manufacturers.
- Resolved both routine and unexpected problems by understanding and adhering to company policies, ensuring customer satisfaction and clear communication.
- Maintained a positive attitude and high-quality service under pressure during busy periods.

Education

Simon Fraser University | *Burnaby, BC*　　　　　January 2023 – May 2026 (Expected)
B.sc. Computing Science

- Dean's List: Fall 2024 and Spring 2025