Buyun (Brian) Wang

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Profile

Software Developer with extensive experience in web and mobile application development, specializing in JavaScript (React, React Native, Astro), Dart (Flutter), and Python (Django). Proficient in building scalable, high-performance applications, with a proven track record of delivering end-to-end solutions in agile teams and as an independent contractor. Adept at full-stack development, API design, and optimizing user experiences, with a focus on performance, accessibility, and maintainability. Experienced in integrating AI-driven solutions to enhance automation and personalization.

Experience

Lead Developer | Lopal - React Native Mobile App | Vancouver, BC — 2024.07 - Present

Founder of Lopal, a mobile platform connecting travellers with local experts to deliver personalized, AI-enhanced travel experiences.

- Architected user schema for travellers and experts, enabling scalable and efficient data modelling for profile, preferences, and activity data.
- Implemented foundational app structure using React Native + TypeScript, including navigation, authentication flows, and modular state management, with future extensibility in mind.
- Designed a structured onboarding and profile completion flow, generating contextual user labels to drive matchmaking and personalized discovery.
- Established a secure development baseline, incorporating React Native best practices such as secure token storage (using react-native-keychain), input validation, and guarded API access to protect sensitive user data.
- Experimenting with GPT-4 via OpenAI API to analyze natural language input, helping users express trip preferences more freely and receive smarter, contextualized recommendations.
- Adopted a code-first, iterative development workflow, continuously evolving between design, implementation, and real-world usage feedback.

Intermediate Mobile Developer | Greenspace Health | Vancouver, BC — 2021.07 - 2024.02

Developed and deployed mobile, web applications and RESTful APIs from concept to production using Flutter, AstroJS and Django Rest Framework, delivering scalable healthcare solutions.

- Built PocketWell, a high-performance Flutter mobile app from scratch, implementing routing, UI components, and state management, scaling to 10k+ MAUs post-launch.
- Developed Wellness Together Canada, a content-driven web application using AstroJS, serving 200k+ users nationwide.
- Engineered RESTful APIs with Django Rest Framework, optimizing backend performance and ensuring seamless integration with mobile and web clients.
- Integrated Elasticsearch to enable fast resource lookup from Contentful, improving content accessibility and search efficiency.
- Implemented comprehensive test coverage, including unit, Bloc, and widget tests using Mocktail and Mockito.
- Deployed analytics tracking with Mixpanel, capturing usage patterns and generating data-driven insights for product improvements.
- Mentored junior developers and authored technical documentation, ensuring maintainability and long-term success of mobile and web applications.

Front-end Software Developer | Ensemble Systems Inc. | Richmond, BC — 2019.05 - 2021.06

Developed web and mobile applications using modern Java and JS frameworks with a focus on scalable UI development, accessibility, and performance optimization.

- Built and optimized UI components for Viacom MTV & BET+ apps using React, Context API, and Storybook, ensuring modular, testable, and reusable front-end architecture with unit and integration tests (Jest, Enzyme).
- Enhanced user experience in an in-house Android app, implementing Jetpack, MVVM architecture, and offline caching with Room and repository patterns, improving app performance and reliability.
- Developed AEM (Adobe Experience Manager) components using Apache Sling, enabling dynamic content integration into web templates for enterprise clients.
- Implemented data tracking and analytics using Adobe Analytics, providing insights into user behaviour, engagement, and predictive analysis.
- Built and maintained SPAs with React/Redux, improving UX for email frequency settings, preference management, and direct mail options, while ensuring full responsiveness and AA accessibility compliance.
- Refactored and modernized front-end code, migrating legacy styles from CSS/SCSS to CSS-in-JS (Emotion) and integrating React Hooks, enhancing maintainability and performance.

Production Pipeline Technician | Sony Pictures Imageworks | Vancouver, BC — 2018.02 - 2019.04
Developed automation tools, data pipelines, and web applications to optimize film production workflows, reducing manual workload and human error for VFX artists.
- Built a dynamic web application using Django (backend) and JavaScript + Bootstrap (frontend) to automate render core request formatting, reducing human error by 70%.
- Developed Python and Shell scripting tools that automated network operations, data transfers, render farm tasks, and error handling, saving VFX artists over an hour per day.
- Optimized render farm performance, designing a priority-based scheduling system to efficiently allocate render cores, ensuring optimal processing of high-priority frames.

Skills

- **Languages:** JavaScript, Java, Dart, Python, HTML/CSS, SQL
- **Frameworks:** Flutter, AstroJS, ReactJS, React Native, Django, Meteor, NodeJS, Bootstrap
- **Tools:** Git, Postman, Proxyman, PostgreSQL, MongoDB

Education

University of British Columbia, Vancouver, BC — Computer Science, 2017

Projects

SurveyHorizon | E-Commerce Web App | Vancouver, BC — 2025.02 - Present
Lead developer for SurveyHorizon, an all-in-one shop for professional surveying equipments.
- Designed, built, and deployed a responsive web application on Vercel using a modern frontend stack including React, Tailwind CSS, shadcn/ui, and Radix UI, delivering a fast, accessible survey platform tailored for professional needs.
- Leveraged Lovable AI tooling to accelerate component design and boilerplate generation, reflecting a workflow that embraces AI-native development principles and rapid prototyping.
- Implemented React Router v6 and Redux for scalable page transitions and state management, supporting a dynamic survey flow and real-time data validation.
- Applied Vercel Analytics and HSTS security policies to ensure performance observability and secure deployments.
- Integrated Open Graph metadata and Lucide iconography for enhanced SEO and brand aesthetics.
- Continuously iterating on user experience through structured feedback loops, validating design choices with behavioural data and usability insights.

TensorZero | LLM Model Gateway | Vancouver, BC — 2024.11 - Present
Active contributor for TensorZero, a reinforcement learning middleware that optimizes LLM applications by transforming production data into smarter, faster, and cost-efficient models. Github
- Optimized inference detail page, introducing clear LLM variant labels to enhance model interpretability.
- Developed an interactive Python Jupyter Notebook, demonstrating GPT-4o fine-tuning using Supervised Fine-Tuning (SFT) and Direct Preference Optimization (DPO) to improve Named Entity Recognition (NER).

Lead Developer - Freelance | Winston UTrack - React Native Mobile App | Vancouver, BC — 2018.05 - 2018.07
Developed Winston UTrack, an application for managing educational workshops, successfully deployed on Google Play Store and Apple App Store.
- Designed and implemented authentication flow using React Navigation and optimized global state management by leveraging Redux, ensuring a seamless and secure login experience.
- Built a dynamic schedule page using FlatList, mapping real-time workshop data into structured timetable slots.
- Integrated PostgreSQL with a Ruby on Rails API-only backend, ensuring scalable student and workshop data management, successfully supporting 130+ student sign-ups on launch day.