

Dhyan Rai

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TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C, C++, SQL, TypeScript, JavaScript, XML
Frameworks & APIs: Android, React, Next.js, Node.js, Express, FastAPI, Flask, REST APIs
Cloud, DevOps & Testing: GCP, AWS, Docker, Kubernetes, Git, GitHub Actions, CI/CD, Postman
Data & AI: PostgreSQL, MongoDB, Redis, LangGraph, MCP, GitHub Copilot, Codex, prompt engineering

EDUCATION

University of Waterloo Waterloo, ON
Bachelor of Computer Science Sep. 2024 – Jun. 2029

- Cumulative Average: 91.1% (3.96 / 4.0 GPA)
- Coursework: Object-Oriented Programming, Functional Programming, Compilers, Algorithm Design

EXPERIENCE

HMI Software Developer Intern | *Java, Kotlin, XML, Android* Sep. 2026 – Dec. 2026
Ford Motor Company Waterloo, ON

- Built Java/XML components for Orion, Ford and Lincoln's next-generation infotainment UI, implementing Figma designs through Android Runtime Resource Overlays (RROs), at the framework and library levels.
- Accelerated the design-to-development pipeline by wiring Figma tokens directly into shared Android components, automating the translation of design tokens into Android XML resources.
- Worked with consumer app teams and testers to discuss feature requests and bugs, tracking work through Jira and attending daily standups to coordinate fixes within two-week Agile sprints.

Software Engineer Intern | *React, GCP, Python, LangGraph* Jan. 2026 – Apr. 2026
Effizient Inc. Cambridge, ON

- Turned a static company website into an AI-powered immigration product, building Firebase and Cloud Functions backends for auth, persistence, payments, analytics, and AI tools.
- Built immigration-focused AI tools, including a government-source-grounded chatbot and NOC job-duty reviewer used by customers and internal consultants.
- Cut internal NOC review workload by roughly 78% by automating job-duty classification with agentic RAG, reranking, and aggregation.
- Shipped paid subscription access for increased AI-tool usage, connecting Stripe billing to usage limits and securing the product's first paying subscribers.

Software Engineering Intern | *React Native, Android Studio, Node.js* Sep. 2025 – Dec. 2025
CoinWa (fintech startup) Waterloo, ON

- Built and debugged React Native features for a production-bound financial-literacy app, improving launch readiness through QA fixes across mobile UI flows.
- Built a Postman regression test suite for REST endpoints, reducing manual API testing effort by 86%.

PROJECTS

AgentView | *React, Qwen3.5-4B, LoRA, Playwright, MCP* Aug. 2026

- Built AgentView at HackThe6ix, a webpage translation system that converts noisy HTML into structured, executable JSON for AI agents, reducing agent token usage by **86%** across tested models.
- Helped design and benchmark the system against other agent setups; translated pages required about **40% fewer steps** to complete web-navigation tasks.
- Built the **React frontend and results dashboard**, including comparison charts, signup flows, and interfaces for testing and viewing benchmark results.

ASCII Game Engine | *C++, ncurses, MVC, OOP* Dec. 2025

- Built a C++/ncurses game engine using MVC, separating engine state, rendering, and game logic into modular components with explicit interfaces.
- Designed a memory-safe RAII-based entity-management system with a simple game-object API, centralizing creation, ownership, cleanup, and safe access.
- Optimized collision detection with **spatial hashing**, enabling efficient real-time entity interactions without expensive pairwise checks.