

Prabhjot Kaur

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EDUCATION

The University of Western Ontario - London, ON

Bachelor of Science in Computer Science

Sep 2024 - Jun 2028

SKILLS

Web & Frontend:

HTML • CSS • JavaScript • TypeScript • Next.js • Responsive Web Design • UI/UX • Website Accessibility • Website Content Management

AI & Document Systems:

Gemini AI • OpenAI API • RAG Workflows • MongoDB Atlas Vector Search • Semantic Search • Prompt Engineering • PDF Text Extraction • Document Analysis

Backend & Databases:

Python • Java • C++ • FastAPI • REST APIs • Supabase • Firebase • MongoDB Atlas • API Integration • Data Handling
Computer Vision & Data: OpenCV • MediaPipe • NumPy • scikit-learn • CIE LAB Color Matching • ΔE Color Distance • Image Analysis
Tools & Platforms: GitHub • VS Code • Vercel • Xcode • Figma • TestFlight • ngrok • Google Search Console • Microsoft Office

Languages:

English • Hindi • Punjabi • Swedish

EXPERIENCE

ELLEHACKS 2026 HACKATHON - Developer

Jan 2026

- ❖ Collaborated in a team of 4 to build an AI-powered document analysis platform that helped users understand legal, government, and financial documents
- ❖ Developed a document upload workflow using Next.js, TypeScript, PDF.js, Gemini AI, and MongoDB Atlas Vector Search
- ❖ Implemented an embeddings-first RAG workflow where extracted document text is chunked, indexed, and retrieved before AI explanation generation
- ❖ Built age-adaptive explanation features and improved privacy-conscious design by avoiding permanent PDF file storage

WOMEN IN SCIENCE - Technology Director

Aug 2025 - Apr 2026

- ❖ Maintained and improved the Women in Science website through content updates, layout changes, usability improvements, and digital organization
- ❖ Used HTML, CSS, JavaScript, GitHub, and website management tools to support ongoing technical updates
- ❖ Supported UI/UX improvements, accessibility updates, dynamic content, and website organization for events and initiatives
- ❖ Assisted with SEO and digital visibility improvements using tools such as Google Search Console

NELUMA - Personal Project

Nov 2025 - Present

- ❖ Developing an AI-powered beauty technology app with SwiftUI screens, personalized recommendations, and client/MUA user flows
- ❖ Built backend image-analysis logic using Python, FastAPI, OpenCV, MediaPipe, and REST APIs
- ❖ Implemented and tested API endpoints for skin tone, undertone, and shade-matching analysis
- ❖ Organized backend services and planned Supabase integration for user profiles, analysis history, and recommendations

WITS+ ADA MENTORSHIP - Developer

Jan 2024 - Mar 2025

- ❖ Collaborated with mentors and peers in an 8-week program to build Luna, a menstrual health tracking app with AI chat and health history logging
- ❖ Developed SwiftUI features including authentication screens, user input forms, symptom tracking, and persistent local data storage
- ❖ Planned OpenAI chatbot integration so responses could use user-provided health and cycle-related context
- ❖ Presented the final product to industry professionals, demonstrating the use of AI in women's health technology

SHEHACKS+10 HACKATHON - Developer

Jan 2025

- ❖ Collaborated with a hackathon team to develop and present an AI-driven beauty technology solution under strict deadlines
- ❖ Built image-analysis logic using Python, OpenCV, and MediaPipe to extract skin tone from user-uploaded images
- ❖ Applied CIE LAB color conversion and ΔE color distance matching to compare skin tone with foundation shade data
- ❖ Developed recommendation logic to return ranked, cross-brand foundation shade matches

ALFAAZ MAGAZINE - Graphic Designer

Sep 2020 - Aug 2021

- ❖ Designed magazine layouts that matched article themes while maintaining visual consistency across pages
- ❖ Collaborated with writers and editors to refine creative ideas and meet publication deadlines
- ❖ Created polished, print-ready designs with attention to layout, readability, and visual presentation

CERTIFICATIONS

- ❖ Standard First Aid with CPR-C - Lifesaving Society (*Valid until Feb 2028*)
- ❖ Getting Started with Git and GitHub - IBM (*Aug 2025*)
- ❖ Python for Data Science, AI & Development - IBM (*Jun 2026*)
- ❖ Databases and SQL for Data Science with Python - IBM (*Expected Jun 2026*)