

Vibhor Sharma

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Education

University of Waterloo

Sept 2025 – Apr 2030 (Expected)

Bachelor of Applied Science in Engineering (Management Engineering)/ Planned Option in AI/ML

Experience

Chief Technology Officer – PURLUX

June 2025 – Present

Flutter/Dart, Supabase (PostgreSQL), Stripe, Python (FastAPI), Gemini

- Delivered a cross-platform app projected to onboard **1,500+ pilot users** by architecting a **Flutter frontend** integrated with a **Supabase/PostgreSQL backend**.
- Increased booking conversion rate by **25%** by deploying an AI-powered recommendation system with **Gemini APIs** for personalized service suggestions.
- Secured **100K pre-seed funding** after developing a MVP level app at SPURHACKS (2nd Best AI-based App Winner) and pitching at multiple accelerators.

Software Engineer – Questify

April 2025 – Present

Python, HTML, CSS, JavaScript, MoviePy, Cerebras API's, SQLAlchemy, Gemini

- Optimized AI video generation quality and processing by **30%** by engineering a pipeline with **MoviePy** and optimizing inference with **Cerebras API's**.
- Reduced feature deployment time by **20%** by conducting code reviews, building modular Python/SQLAlchemy APIs.
- Implemented **multimodel capabilities** by using Gemini API's for video captioning and content generation, enabling multi-user support for concurrent video rendering.

Programming Instructor – Code Ninjas

Jul 2024 – Feb 2025

Scratch, Python, Roblox Studio, JavaScript

- Taught programming to 50+ students aged 7–14, fostering computational thinking through **project-based learning**.
- Improved student learning outcomes by designing a structured curriculum covering programming fundamentals, logic design, and game development.

Projects

VibeML

HackTheSix 2025

Node.JS, Python, Scikit learn, Redis, Celery, Typescript, Html

- Built a **full-stack AutoML tool** that automated dataset validation, model training, hyperparameter tuning, evaluation, and deployment.
- Built a coherent backend system through **Redis** and **Celery** for task scheduling and background job management, ensuring effective AutoML workflows

Greenhouse Gas Emission Model

Nov 2024

Python, Flask, NASA APIs, Machine Learning

- Predicted emissions with **92% accuracy** by training regression models on NASA environmental datasets.
- Increased accessibility by deploying an interactive Flask dashboard for real-time visualization of emission forecasts.

Chrome Sports Tracker

Dec 2024

JavaScript, APIs

- Delivered real-time **NBA and Champions League scores** via API integration into a Chrome extension.
- Enhanced engagement with personalized notifications and interactive team statistics.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C#, Dart, HTML, CSS

Frameworks/Tools: PyTorch, Scikit-learn, Supabase, React, Flask, FastAPI, Node.js, Flutter, Git, Docker, Stripe API, MoviePy, SQLAlchemy, Cerebras API's, Gemini

Competencies: AI/ML Development, Full-Stack/ Backend Architecture, Curriculum Design, Agile Collaboration, Problem Solving