

Vanshaj Vohra

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EDUCATION

Bachelor of Computer Science(Honours), University of Waterloo

Sep 2020 – Apr 2025

Awards/Honours: President's Scholarship of Distinction, Term Distinction x4

Relevant Coursework: Introduction to Artificial Intelligence, Algorithms, Operating Systems, Data Structures and Data Management, Object-Oriented Programming, User Interfaces, Software Design and Architecture

SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, C++, Java, Kotlin, Elixir, HTML/CSS, SQL, GraphQL
- **Frameworks/Libraries:** React, Flask, NumPy, PyTorch, Express.js, Node.js, Jetpack Compose, PostgreSQL
- **Tools:** Git, Kubernetes, AWS, Postman, Jenkins, Docker, Datadog, RabbitMQ, Firebase, Ollama, K9s

WORK EXPERIENCE

Software Developer Intern, theScore

Sep 2024 – present

- Integrating casino games from 4 third-party game providers onto theScore Bet and ESPN Bet platforms, equipped with game-specific promotions, jackpots and bonus spins using **Elixir** and **Phoenix LiveView**.

AI Software Engineer, Bespoke Metrics Inc.

May 2024 – Aug 2024

- Conceptualized and built a high-accuracy, lightweight PDF extraction and semantic search application using **Python**, **PyTorch**, **Hugging Face Transformers**, and **Faiss**, reducing manual data verification time by **73%**.
- Developed a search feature that translates natural language user queries into **REST API** calls and triggers them using **Python**, **Flask**, **NumPy** and **Ollama**, simplifying discovery & expediting new client onboarding.

Software Developer Intern, Ford Motor Company

Sep 2023 – Dec 2023

- Restricted unauthorized third-party applications from launching in Lincoln vehicles' ultrawide digital dashboard by implementing security features in **Java**, **improving driver and passenger safety**.
- Reduced broadcast delays during **Android Auto** boot-up in panoramic dashboard infotainment systems using **Kotlin**, achieving a **65% reduction** in screen startup time and enhancing functional responsiveness.
- Diagnosed **adb** message logs during sanity testing to write detailed user stories, supporting QA analysts.

Full Stack Software Engineer, AutoCate

May 2022 – Aug 2022

- Pioneered and launched a **company dashboard** in **Python**, **Flask** and **PostgreSQL** equipped with user authentication, enabling **asynchronous request management** through a common interface.
- Conducted market research, value proposition analysis, and designed **usability studies** for **100+ beta users**, discovering the top addressable challenges and iterating based on user research insights.

Software Engineering Intern, Ciena

Sep 2021 – Dec 2021

- Built a prototype of a **web-based visualizer** in **JavaScript** to visualize key relationships between different network domains & microservices, **impacting 250+ developers** with real-time troubleshooting.
- Designed & automated test suites in **Python** for a file system **microservice** that uses YANG RPCs to execute Linux commands as part of a standardized embedded framework.

PROJECTS

Last Man Standing, Survivor Pool Web App

Aug 2024

- Developed a web application in **TypeScript**, **React**, **Node.js**, **Express.js**, and **PostgreSQL** to manage sports league survivor pools, featuring personalized recommendations based on real-time odds data.

Harmonic, Productivity & Planning App

Mar 2024

- Architected and engineered an **Android** app using **Kotlin**, **Jetpack Compose** and **Firebase** that enables users to track various job types, derive graphical and statistical insights, and share data with other users.

PhysiBot, Health Assistant

Jan 2021

- Built an assistive web chatbot in **Python** & **React** that provides preliminary health prognoses based on a user's symptoms using a machine learning model. Used **pandas** & **XGBoost** in IBM Watson Studio to classify diseases.