Vanshaj Vohra

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EDUCATION

Bachelor of Computer Science(Honours), University of Waterloo   Sep 2020 – Apr 2025
Relevant Coursework: Introduction to Artificial Intelligence, Algorithms, Operating Systems, Data Structures and Data Management, Object-Oriented Programming, User Interfaces, Software Design and Architecture
Awards/Honours: President's Scholarship of Distinction, Term Distinction x4

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
- Spearheaded the end-to-end development of a lightweight, high-accuracy PDF extraction and semantic search application using **Python**, **PyTorch**, **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 and 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 unified interface.
- Conducted market research, value proposition analysis, and designed usability studies for **120+ 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 and microservices, **impacting 250+ developers** with real-time troubleshooting.
- Designed and 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 for packet optical products.

PROJECTS

Last Man Standing, NFL 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 safely.

PhysiBot, Hack the North 2020++   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** to classify symptoms and diseases.