

# Seedhant Kalra

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Bachelor of Computer Science and Financial Management (Double Major)*

*Sept. 2023*

- **Relevant Coursework:** Object-Oriented Development, Algorithm Design and Data Modeling, Computing in Python, Data Analysis using NumPy and Pandas, Logic and Computation, Software Abstraction

## EXPERIENCE

### Software Engineer Intern

May 2025 – Aug 2025

*Shopify*

*Toronto, ON*

- Improved page load speeds for **2 million+** merchants by optimizing Shopify Admin web performance through **GraphQL** query refinement, **React** prefetching, and caching; eliminated **200+** fields and **5000+** lines of code
- Contributed to Shopify's **Global Hub for Commerce** initiative using **React** and **TypeScript**, developing a product-sourcing modal with an interactive image carousel that showcased sample items from apps like **Syncee** and **Printful**, streamlining onboarding for **50K+** first-time dropshipping merchants
- Implemented dynamic onboarding logic in **Ruby** using merchant segments and beta flags; built **10+ E2E tests** to validate variant behavior across devices, reducing regression risk by **30%** for Shopify's Dropshipping experiment

### AI Engineer Intern

Jan. 2025 – April 2025

*RemitBee*

*Mississauga, ON*

- Developed an **AI-powered** document transcription feature using **Google Cloud Vision API**, enabling conversion of handwritten and printed notes into text with **95%** accuracy, processing over **1,000** images during testing
- Integrated advanced **NLP** techniques to fine-tune the **Qwen2-VL 7B** model, achieving a **20%** improvement in accuracy for transcribing medical terminology, while maintaining compatibility with existing **AI** infrastructure
- Engineered an AI Healthcare Assistant using **React**, **Node.js**, **OpenAI GPT-4o**, and **MongoDB**, enabling medical professionals to receive real-time support; built short-term memory and encrypted long-term storage, supporting **1,000+** users with **99.5%** uptime during testing

### Software Developer Intern

May 2024 – Aug 2024

*Ontario Chamber of Commerce*

*Toronto, ON*

- Resolved **150+** complex bugs in the LMS platform using **React** and **TypeScript** for frontend, and **Python** with **SQL** for backend, enhancing code quality, reducing resolution time by **30%**, and boosting user satisfaction by **20%**
- Developed e-commerce websites for **10+** SMEs using **JavaScript**, **HTML**, **CSS**, and backend integration with **Python (Django)**, resulting in an **88%** increase in customer acquisition and a **37%** rise in revenue

### Software Developer Intern

May 2023 – Sep. 2023

*iSigma Solutions Inc*

*Mississauga, ON*

- Identified and resolved optimization and security issues using **object-oriented programming** and **sandboxing** techniques, leading to a **10%** decrease in process time and enhanced app performance

### Software Engineer Intern

May 2022 – Aug. 2022

*Tournkey*

*London, ON*

- Implemented a secure online wallet system for a sports management app using **Python**, **Flask**, and **PostgreSQL**, enabling **5,000+** users to manage funds and track transactions in real-time, integrating **Stripe** for payment processing and optimizing backend performance by **40%**, reducing processing time by **35%**

## PROJECTS

**Estate Eagle** | *Python, JavaScript, Next.js, React, XG Boost, Express, Supabase, Tailwind CSS, Matplotlib*

[Link](#)

- Led the development of **Estate Eagle**, a property price tracker built at **Hackhacks 2025** using **React**, **Node**, **Express**, and **Python**; processed **100,000+** datapoints, reducing error by **25%**, and boosting efficiency by **40%**

**PiPaws** | *Python, React, Node.JS, Raspberry PI, OpenCV, Firebase*

[Link](#)

- Developed a remote pet feeding device allowing users to dispense food through a web application using **React/Node.JS**, employing realtime camera monitoring with **OpenCV** and data collection with **Firebase**

**AI Powered 3-D Shirt Picker** | *JavaScript, React, Tailwind CSS, Three.js, Vite, Framer Motion*

[Link](#)

- Built a dynamic T-Shirt AI Picker using **React**, **Three.js**, **Valtio**, and the **OpenAI API**, enabling AI-generated designs and interactive 3D previews; implemented **Tailwind CSS**, **Vite**, and **Framer Motion** to create a responsive UI, boosting user engagement by **40%**

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, C/C++, TypeScript, Ruby, HTML/CSS, SQL, C#

**Frameworks/Libraries:** React/React Native, Node.js, NumPy, Pandas, Sklearn, Django, Next.js, TensorFlow, Tailwind

**Developer Tools:** Git, Postman, VS Code, Jupyter, Jira, Linux, MySQL, Figma, Flutter

**Concepts:** Object Oriented Programming, Sandboxing, Data Structures and Algorithms, Machine Learning