

# SHUAI ZHU (VINCENT)

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## 📁 EXPERIENCES

### Foundation Model Comparisons: Prof. Eric Yu | Research

📅 Sep 2023 – Present 📍 Toronto, Canada

- Conducting a comparative analysis of various strategies and techniques for the adaptation of **foundation models**, aiding corporate decision-making processes in selecting suitable large language models (LLMs).

### You're Next Career Network | Software Engineer

📅 Apr 2023 – Present 📍 Toronto, Canada

- Engineered an interactive career fair map website component, similar to Google Maps, utilizing **React**, **React-Spring**, **Use-Gesture**, **Bootstrap** and **Docker**. Feature includes an info panel, that appears upon location selection.
- Developing interactive websites and internal tools to aid **2000+** University of Toronto students secure internships and graduate positions annually.

### Vevea Systems (NYSE: VEEV) | Software Engineer in Test Intern

📅 May 2022 – Apr 2023 📍 Toronto, Canada

- Lead the development of a data validation automation tool using **Java**, saved **2,800 days/yr** in data creation and boosting productivity by approx. **\$1M/yr**.
- Explored AI chatbot solutions for reducing new hires' onboarding time. Saving **5,000 days/yr** or **\$1.7M/yr** using **Dialogflow**, **React.js**, and **Node.js**.
- Developed **145** new automation tests using **Java** and **Cucumber**, resulting in improved software quality and reduction in manual testing time by **80%**.
- Implemented Agile (Scrum) methodology, improving personal productivity by **10%** or saving **24 days/yr** through daily stand-ups, sprint planning, code reviews, and efficient codebase management.

### Korotu Technology | Software Engineer

📅 Jan 2023 – Apr 2023 📍 Toronto, Canada

- Directed a team of six and engineered a mobile app that classifies tree/plant species using **Expo**, **React Native.js**, **Node.js**, **Express.js**, **Parse**, **Tensorflow**, **Jest**, deployed backend to **Heroku**, and ML model to **Azure ML**.
- Contributed as **Scrum master**, **frontend**, and **ML engineer**. Built front-end camera, and image library functionality and deployed TensorFlow model.
- Offered two ML classifications to users: PlantID API and custom ML using Google's Mobile Plants classification model and iNaturalist plant dataset.
- Assisting forest conservation through user-led tree species identification and data collection. Reduce data collection costs and increase forest coverage.

## 🔗 PROJECTS

### Tab Saver (In Progress) | HTML, CSS, JS, React.js

- Building a **Free** tab management chrome extension that will sync grouped tabs with custom labels on the user's google account.
- Saves approx. **52 hrs/yr** on manually saving tabs in the bookmark.

### Textbook Predictor: UofT LearnAI (In Progress) | Python

- Developing a **second-hand textbook price prediction** tool for students.
- Saves students approx. **30 mins/book** on price comparisons.

### WaterBNB | HTML, CSS, React, JS, SQLite, Python, Django

- Developed an **Airbnb replica** with **Expo** frontend (**HTML**, **TailwindCSS**, **BootstrapCSS**, **React**, **JavaScript**), **Django** REST backend, and **SQLite** database.
- Features: Token-based Authentication, User Profile, Notification, Comment, Rating, Reservation, Property, Search and Filter, Pagination.

### Vital Sport: Hack The Globe | TailwindCSS, Python, Django

- Lead team of three on the Hack The Globe 2023 and created a full stack web app to help athletes monitor abnormalities in their cardiac cycle.
- Demonstrated potential to reduce cardiac deaths in athletes.

## 🎓 EDUCATION

### University of Toronto St.George B.Sc. in Computer Science

📅 Sep 2019 - Apr 2024 (Expected)

📖 Data Structures & Algorithms, Software Design, Databases, UI/UX, Web Programming, Software Engineering

## </> PROGRAMMING

Python Java HTML CSS SQL  
JavaScript Latex

## ⚙️ SKILLS

React React Native Node  
Flask Django Docker SQLite  
PostgreSQL TailwindCSS  
BootstrapCSS SCSS Git  
Cucumber Shell Bash Figma

## 🏆 ACHIEVEMENTS

- Top 3 Actuarial Students' National Association Case Competition: 2022

## 📁 HACKATHONS

- Google Developers Solution Challenge: 2022
- UofTHacks IX: 2022
- UofTHacks X: 2023
- Hack the Globe: 2023

## 🌟 CERTIFICATE

- UofTAI: LearnAI 2022-2023
- Codecademy Full Stack Engineer

## 👥 CLUBS

- Google Developer Student Club
- UofT Artificial Intelligence (UofT AI)
- UofT Machine Intelligence Student Team
- UofT Kendo Club
- You're Next Career Network

## ❤️ INTERESTS

Personal Finance Aquarium Game  
Travelling