

# Vincent Sun

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## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, HTML/CSS, C, Racket

**Frameworks:** React.js, Django, Node.js, TanStack Query, Pytest, Express.js, Playwright, Pydantic

**Technologies:** REST, GraphQL, PostgreSQL, MongoDB, TanStack Query, Elasticsearch, BASH, Axios

**Developer Tools:** Git, Visual Studio Code, Jupyter Notebook, PyCharm, DataGrip, Jira, Linear, LaTeX

## EXPERIENCES

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### Software Engineering Intern

*Secoda Inc.*

May 2024 – Present

- Revamped an internal integrations dashboard, enhancing workflow efficiency by **60%** using **GraphQL** requests to **Linear** and boosting integration query speeds by **47%** through optimization of **Django** database queries
- Engineered a sorting algorithm using dynamic weights with **Elasticsearch** to personalize user search results
- Refactored billing calculations to the backend using strict **pydantic** models to safeguard exposed endpoints
- Developed unit-tested code using **Pytest** and **Playwright**, and implemented shadow deployments to production

### Contract Programmer

*Dupak Inc.*

Jul. 2023 – Aug. 2023

- Reduced annual audit preparation time by 80% by developing a label-based organization method and implementing **Google API** plugins to automate metadata updates
- Continually updated and collaborated with management during development to ensure requirements were met

### Web Developer

*AWA DK Canada Inc.*

Sep. 2021 – Apr. 2024

- Designed and created a website using **Wordpress** as the company's primary media platform
- Developed a multilingual setting and customized product pages using **HTML+CSS** detailing all specifications

**Club Leadership:** Hack the Ridge Hackathon President, Math Club Co-President, Debate Club Head of Logistics

## PROJECTS

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**Memory Melody** | *JavaScript, React.js, Node.js, Express.js, Axios, GPT API, Cheerio* Jan. 2024

- Created a website that lets users input keywords to display nostalgic events while listening to music
- Fetched related images by using **Cheerio** and **GPT API**, with communication built using **Express.js** and **Axios**

**Harmony Haven** | *JavaScript, React.js, Node.js, Express.js, MongoDB, Chart.js* Aug. 2023

- Developed a game-like web application to improve users' singing using real-time pitch comparisons
- Dynamically sourced songs and lyrics from **YouTube** and **Spotify API** to display to the user
- Analyzed pitch with the **Web Audio API**, visualized data with **Chart.js**, and stored information in **MongoDB**

**Optimal Shopper** | *JavaScript, React.js, Node.js, Express.js, puppeteer* Jul. 2023

- Built a website that displays and compares products from nearby grocery stores
- Allowed users to sort results by distance, price, and store, and add products to a shopping list
- Scraped data with **puppeteer** in real-time, and communicated between front-end and backend with **Express.js**

**Spectra** | *Python, Raspberry Pi, OpenCV, Tensorflow* Jul. 2022

- Created an over-the-shoulder bag with a camera that provides audio feedback to assist visually impaired people
- Integrated text recognition and emotion detection features using **OpenCV** and **Tensorflow** into a **Raspberry Pi**
- Demonstrated the product to Ontario Tech University and was recognized for incubation

**Chester Voice Assistant** | *Python, SpeechRecognition, pyttsx3, BeautifulSoup, Google API* Feb. 2021

- Programmed a **Python** voice assistant that scrapes information, and adds events to the user's calendar
- Converted speech to text with the **SpeechRecognition** library and text to speech with the **pyttsx3** library
- Scraped with **BeautifulSoup**, leveraged **Google API** for scheduling, and played videos with **requests** library

## EDUCATION

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### Candidate for Bachelor of Computer Science Honours

*University of Waterloo*

Sep. 2023 – Expected Apr. 2028

- cGPA: 3.96, Awards: René Descartes National Mathematics Scholarship, President's Scholarship of Distinction