Vincent Sun

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EDUCATION

Candidate for Bachelor of Computer Science Honours

University of Waterloo   Sep. 2023 – Expected Apr. 2028

- cGPA: 94.18, Awards: René Descartes National Mathematics Scholarship, President's Scholarship of Distinction

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, HTML/CSS, C, Racket
Frameworks: React.js, Django, Node.js, Pytest, Express.js, Mantine, Playwright, Pydantic
Technologies: REST, GraphQL, PostgreSQL, MongoDB, Pandas, Snowflake, TanStack Query, Elasticsearch, BASH
Developer Tools: Git, Visual Studio Code, Jupyter Notebook, DataGrip, PyCharm, Jira, Linear, LaTeX
Certifications: AWS Certified Cloud Practitioner

EXPERIENCES

Software Engineering Intern

Secoda Inc.   May 2024 – Aug. 2024

- Created a failure detection dashboard for data integrations, reducing incident response time by **70%**
- Decreased integration query speeds by **47%** through optimization of **Django ORM** database queries
- Engineered a sorting algorithm using dynamic weights with **Elasticsearch** to personalize user search results, built behind a search testing framework that is currently being shadow deployed
- Created analytics widgets for users to visualize their data trends and optimized metric update times by **32%**
- Developed a **Coalesce** integration to import jobs and tests built on **Snowflake** as well as data lineage

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

PROJECTS

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
- Scraped with **BeautifulSoup**, leveraged **Google API** for scheduling, and played videos with **requests** library