Alex Van Kuiken

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Education

University of Michigan — Graduated May 2023
Bachelor of Science in Computer Science, Cognitive Science — *Ann Arbor, Michigan*

- 3.882 GPA, Recipient of a full tuition scholarship.

City High Middle School — Graduated May 2019
High School Diploma — *Grand Rapids, Michigan*

- Graduated *summa cum laude,* National Honor Society, 4.0/4.0 GPA, IB Diploma recipient, 39/45.

Work Experience

Capital One Financial Corporation — June 2022-August 2022
Software Engineering Intern — *Mclean, Virginia*

- Migrated the company's API Console from Polymer to LitElement, converting, testing, and debugging 8 web components while updating the site's CSS and UI.
- Created a testing suite for the API Console, hardening individual components with Web-Test-Runner and testing the console as a whole using Cypress.

Academy of Art and Design — March 2021-April 2022
Tutor — *Grand Rapids, Michigan*

- Developed 3 weeks of Python coursework, teaching students fundamentals of creating Python script to automate video-editing.
- Pioneered the creation of AAD's SAT tutoring department, by single-handedly developing over 50 hours of lesson plans for 3 new weekly students.

ModMotion Media Company — June 2017-August 2017
Intern — *Grand Rapids, Michigan*

- Conducted operation tests on ten computers and virtual reality system pairs created for Amway Corporation to heighten consumer experience, diligently handling computer equipment.
- Explored a new burgeoning field of virtual and augmented reality experiences as part of business representation and marketing

Projects

FridgeChef — April 2023
School Project — *University of Michigan-Ann Arbor*

- Implemented in Python using Twilio, spaCy, Flask, and Hugging Face Transformers.
- Generates dinner recipes for a user based on text conversations specifying ingredients, dietary restrictions and dietary preferences, sent directly to a phone.
- Created in a group of eight as part of a capstone project in conversational AI.

Solution-finder for the Traveling Salesperson Problem — December 2021
School Project — *University of Michigan-Ann Arbor*

- Implemented in C++.
- Given a collection of xy-plane coordinates, separately finds both a quick and optimal solution to the Traveling Salesperson Problem.
- Implemented using random insertion and branch-and-bound with pruning.

Skills and Interests

- Coding: C/C++, Python, Java, Javascript, HTML, SQL, MongoDB
- Conversationally fluent in Chinese
- Proficiency in Adobe Photoshop and Adobe Premiere Pro