

# Kevin M. Zhao

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## EDUCATION

**University of Michigan** — *Ann Arbor, Michigan*

**2022 May**

BSE in Computer Science, College of Engineering

**GPA: 3.5/4.0**

**Minor:** Economics

**Honors:** Dean's Honor List (F18, W19, F19)

**Major GPA: 3.6/4.0**

**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Discrete Math, Computer Organization, Linear Algebra, Statistics & Data Analysis/Visualization, Mathematics Foundations of CS

**Stuyvesant High School** — *New York City, New York*

**2018 June**

## PROJECTS AND RESEARCH

**Wolverine-DM** — [wolverine-dm.herokuapp.com](https://wolverine-dm.herokuapp.com)

**2020 February – Present**

- Used Django, SQL, databases, and QuerySet API to build an interactive platform allowing users to interact with others through creating posts, commenting, liking, and messaging.
- Created functions in jQuery and React to limit reloading templates by 50%, leading to a seamless UI/UX.
- Implemented efficient image storage using AWS S3 and password reset functionality using backend email hosting.

**Programmer | CLAWS @ UM** — [claws-mcc.herokuapp.com](https://claws-mcc.herokuapp.com)

**2019 September – Present**

- Used Python/Django/JS to help develop the 'Mission Control Center', a webserver and database for hypothetical astronauts to monitor mission details such as field notes, instructions, photos, and organize pre/post operation data.
- Helped designing and programming a heads-up reality display on the Microsoft HoloLens for astronauts during EVAs.

**Michigan Transportation Institute** — [d3-visualizer.herokuapp.com](https://d3-visualizer.herokuapp.com)

**2019 May – 2019 October**

- Developed webpage for the University Hospital using 5000+ points of car crash data, google maps API, dimensional filtering, and svg charts, allowing doctors to monitor and predict trends of accidents across Michigan.
- Increased runtime by removing 250+ lines from 1700+ lines of code whilst keeping similar functionality.
- Created tables and 5 charts to allow easy visualization of data points as they are filtered by category metrics.

**Instructional Writer** — [github.com/kevinzhao07](https://github.com/kevinzhao07)

**2019 June – Present**

- Illustrated in-depth tutorials explaining polymorphism/inheritance, trees, classes, algorithms, and data structures.
- Wrote simple documentation on Crossfilter and Django, and guides on setting up popular libraries and frameworks.

## EXPERIENCE

**Web Developer | ArtsEngine** — *Ann Arbor, MI*

**2019 October – 2020 May**

- Planned, designed, and implemented website for Michigan's ArtsEngine platform using WordPress and Divi platforms.
- Advertised ArtsEngine and increased website traffic by 100% by promoting grants, programs, and courses to students interested in working on projects centered around both the Engineering and the Arts.
- Worked together with a team of 10 to design modern templates and write short and efficient JavaScript code.

**Programmer | Hearts & Minds** — *New York City, New York*

**2018 June – 2018 August**

- Helped design company website by making mockup drafts as well as adding JavaScript and modifying front-end code.
- Worked with Wordpress in setting up the structure of the website and PHP to implement POST/GET search queries to improve user interface and interaction on the webpage.

## TECHINICAL SKILLS

**Languages:** C++, JavaScript [jQuery, JSON, d3, Crossfilter, React], Python [Django], Java, C

**Other:** AWS (S3), SQL, Jinja2, Git, HTML/CSS, Wordpress, Divi

## ACTIVITIES

[2018] Curriculum Creator/Programming Tutor at Khan's Tutorial explaining recursion and simple for and while loops.

[2018] City Outreach at Chinatown Partnership promoting small businesses after the impact of Hurricane Irene.