

# William Zhen

[w2zhen@uwaterloo.ca](mailto:w2zhen@uwaterloo.ca)  
[github.com/RandumbWilliam](https://github.com/RandumbWilliam)  
[randumbwilliam.github.io/williamzhenv2](https://randumbwilliam.github.io/williamzhenv2)  
(416) 272-8166

## SKILLS

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<b>Languages</b>	Python, C++, JavaScript, TypeScript, HTML/CSS/SCSS, MATLAB
<b>Frameworks</b>	React, Next.js, Flask
<b>Tools</b>	MongoDB, Git, Docker, PostgreSQL, Jupyter Notebook

## EXPERIENCE

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<b>Doxey Lab,</b> Front-end and UI/UX Developer Intern	<b>Remote</b> <i>September 2020 – Present</i>
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- Lead the project of Annoview; an online tool for genome visualization and exploration of gene neighbourhoods using React, Python Flask, MongoDB and D3.js for manipulating data
- Developed the front-end of AlignDx: an online tool for rapid real-time diagnostics of RNA sequence datasets for pathogen and host detection using React and Typescript
- Allowed users to upload their dataset, customize the result, export it for publications, and save it to their user account
- Developed a responsive and friendly user interface for the visualization utilizing a custom lazy loader for the dataset and parsing algorithm in Python to reduce analytical times
- Designed and created graphics using Sketch and Adobe Illustrator

<b>Shopper Army,</b> Operations Technician Support and Creative Director	<b>Toronto, ON</b> <i>January 2020 – Present</i>
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- Developed daily operation algorithms to reduce manual work and to increase productivity using Jupyter Notebook
- Redesigned the product review page to include pagination and expand functionality to gather more data using Sketch, Vue.js and Storyblok
- Designed weekly promotion graphics for social media and brand advertisements using Adobe Photoshop

<b>Grand &amp; Toy,</b> PC Support Technician	<b>Vaughan, ON</b> <i>May 2019 – August 2019</i>
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- Developed a user-data backup script for the Windows 10 deployment to reduce migration times and errors using Batch script
- Prepared over 20 well organized administrator and end-user documentations supporting the national deployment team and clients across Canada

## EDUCATION

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<b>University of Waterloo,</b> Bachelor of Applied Science   Nanotechnology Engineering, Computing Option	<b>Waterloo, ON</b> <i>2018 – 2023</i>
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## INTERESTS

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Art, Graphic Design, Skateboarding, and Fitness