

# Henry Zhang

Software Engineer Intern | Microsoft Corporation

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## SKILLS

- **Languages:** Python, JavaScript, TypeScript, C++, C, SQL, GraphQL
- **Framworks and Libraries:** Node.js, Express.js, Next.js, React.js, Vue.js, jQuery, Bootstrap, Tailwind, NumPy, Electron, Flask
- **Databases:** MongoDB, Firebase, SQL
- **Tools and Technologies:** Git, Docker, JIRA, Azure DevOps, NetlifyCMS, Vercel, Postman, Linux, Jenkins, AWS, Microsoft Azure

## EDUCATION

### University of Waterloo

Sep 2020 - Jun 2024

Honours Bachelor of Computer Science (Co-op)

## WORK EXPERIENCE

### Software Engineer Intern

Jun 2022 - Sep 2022

#### Microsoft Corporation

- Tech Stack: TypeScript, React, GraphQL, WBXml Microsoft Jarvis
- Developing dashboards to monitor latency and reliability for Outlook GraphQL and WBXml Endpoints

### Software Developer

Jan 2022 - Apr 2022

#### Arctic Wolf Networks

- Tech Stack: Python, Django, Docker, Elasticsearch, Jenkins, Amazon CloudWatch, Bash, Linux, Git, JIRA
- Developed service that crossreferences data from different sources to identify and classify customer devices
- Created automation tools to streamline workflow for Security Engineers and increase security coverage
- Built customizable report generation template using Django for customer security risk metrics.

### Full Stack Software Developer

May 2021 - Aug 2021

#### University of Waterloo

- Tech Stack: Express, Firebase, Google Drive API, Microsoft Graph API, Twilio Authy, Microsoft Azure, NodeJS
- Developed Secure File Sharing application that allows users to send and receive files with a key that is not reused or stored.
- Created API for file sharing and account maintenance features (uploading, sharing and downloading files, as well as Multi-factor authentication, changing password, phone number, security questions)
- Deployed web app and real-time database using Firebase and node.js

## PROJECTS

### Stock Market Sentiment Analysis

[sentiment-index.netlify.app](https://sentiment-index.netlify.app)

- Tech Stack: TypeScript, React, MongoDB Atlas, co:here NLP, Heroku, Redis, Netlify CMS, Chart.js
- Developed model measuring market sentiment using co:here natural language processing APIs on media articles and reddit posts
- Created customizable data visualization of market sentiment over time using Chart.js

### CourierU

[courieru.herokuapp.com](https://courieru.herokuapp.com)

- Tech Stack: MongoDB Atlas, Bootstrap, Mapbox, Radar.io, JavaScript, git, Node.js
- Developed a service for foodbanks to coordinate deliveries to those in need during the COVID-19 Pandemic by receiving requests and then mapping out efficient delivery routes for drivers
- Featured in the MLH blog: [stories.mlh.io/5-awesome-hacks-you-can-make-with-radar-1b3f76dc7ea9](https://stories.mlh.io/5-awesome-hacks-you-can-make-with-radar-1b3f76dc7ea9)

### Success Stories of New Canadians

[immigrant-success-canada.netlify.app](https://immigrant-success-canada.netlify.app)

- Tech Stack: JavaScript, React, Gatsby, jQuery, Netlify CMS, Node.js, git, Node.js
- Designed and built a blog site with responsive and mobile-friendly UI showcasing the stories of recent Canadian Immigrants
- Utilized static site generation with Gatsby and Netlify CMS to easily create, edit and delete blog posts
- Applied server-side rendering to decrease page loading time by up to 30%