# **SOPHIA ZHENG**

# Software Engineer

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## **Highlights**

- Proficient development experience with web development with TypeScript, HTML, CSS, Git, ReactJS and Angular
- In-depth understanding of Data Structure, Algorithms and OOP principles
- · Excellent communication skills and great team player
- Quick learner with strong self-motivation and enthusiastic individual handling multiple tasks

### **Work Experience**

### Software Engineer | Workday

2021.11 - Present

- Drove adoption of Storybook and Cypress that enhance engineer experience and provide better UI testing strategy for video & audio player.
- Implemented new features, fixed issues and improved performance for video & audio players with ReactJS and Typescript.
- Improved, tested and documented adoption of videoJS and HLS for Adaptive Bitrate Streaming via different browsers and platforms.
- Created Cloudflare CDN worker to fetch media contents from the AWS S3 and enabled Adaptive Bitrate Streaming that reduced video stalls by 97% and reduced video manual quality change by 84%.
- Collected and visualized metrics on Nimbus, Wavefront and Pharos dashboards to monitor application performance and created alerts if the error rate goes beyond certain thresholds with SQL & Terraform.

#### Software Developer | IBM

2019.9 - 2021.10

- Implemented new features for IBM Sterling Business Transaction Intelligence Tool in Supply Chain Network to provide easier access for customers to track orders and inventories with **Angular** & **NodeJS**.
- Organized and participated in cross-team projects alongside more than 6 software engineers, and performed knowledge sharing after projects is accomplished.
- Diagnosed and analyzed project construction issues and lead the team to resolve 12 code conflicts within 2 days.

### Software Developer Intern | IBM

2019.9 - 2021.10

- Worked in an Agile environment to develop and test applications.
- Implemented new features for Carbon Charts and Carbon Design System, provided unit tests and solved issues with D3.js and Vanilla JavaScript.
- Implemented and optimized the WYSIWYG chart customization tool for nondevelopers that can be shared and self-synced in various ways with ReactJS and GraphOL
- Migrated WYSIWYG web application from Angular to ReactJS with TypeScript.

# CV Research Assistant | York University CV Centre 2018.5 - 2019.4

- Analyzed and tested Auto Camera Calibration with Manhattan Frame Estimation and Unsupervised Crowd Counting.
- Evaluated and compared state of art CV algorithms for specified datasets via Python and MATLAB.

### **Skills**

- Languages: TypeScript, Python, Java, SQL, Matlab, HTML, CSS
- Framework & Tools: ReactJS, Angular, D3.js, NodeJS, Git, Storybook, Cypress, Redux, GraphQL, Cloudflare, Terraform
- AWS: EC2, S3, Lambda

### **Education**

- B.Sc. Honors, Computer Science
  York University (2016.1 2021.4)
- Machine Learning Certificate
  Stanford University via Coursera (2017)
- Graphic Design Advanced Diploma
  Seneca College (2014.1 2016.1)

# **Projects**

#### RSME web Application 🔗

- A web application that autogenerate resume in PDF based on LinkedIn profile information via LinkedIn RESTful API and OAuth2 and gets code contribution chart from GitHub with given username
- The project is written in Node.js and Express.js with various of Node.js libraries.

### Lane Detection 🔗

- An algorithm to recognize lane marks from random images and videos without camera calibration
- It includes image color analysis, filtering, perspective transformation and sliding windows
- The project uses Python libraries including Matplotlib, OpenCV and NumPy