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- 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

2021.5 - 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 - 2021.4

- 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 Angular, ReactJS, TypeScript and GraphQL.

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