# FEI-FEI ZHENG

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## WHO AM I

I am super passionate about solving problems by science and technology. I am strong self-motivated quick learner and I love to keep things organized. I have my own way of organizing and digesting knowledge and apply it across disciplines. My excellent communication and critical thinking skills help me getting things done collaboratively with others.

Currently I live in Toronto and in my last year of the Computer Science program at York University. My interests in computer science area are in software design and computer vision. Apparently, school is not enough for me, that I am also a frequent visitor to Udacity, Coursera, Lynda, InfoQ to keep my knowledge to up to date. But I am not entirely geeky, since I also build hand crafts and play Chinese classical music instruments in spare time.

## WHAT I KNOW

- Motivated **Software Engineer** with strong analytical, programming and problem-solving experience
- In-depth understanding of **Data Structure, Algorithms** and **OOP** principles
- In-depth understanding of **Web, Mobile, Database** and other software design best practices
- Love using **Git** version control, especially when working with other geeks
- Excellent **communication** skills and great team player
- **Quick learner** and ability to work under pressure with time management skills
- **Good motivator**, enthusiastic and passionate about new tools and technology

## WHAT I AM GOOD AT

- Programming: NodeJS, Python, Java, PostgreSQL
- Framework & Tools: React JS, Express JS, Angular, D3.js, RESTful API, OAuth2
- DevOps: Git, Docker, AWS EC2
- AI & Mathematics: OpenCV, NumPy, MATLAB
- Platforms: Linux (Alpine, CentOS), MacOS, Windows

## WHAT I LEARNED

2016 - 2021 **B.Sc. Honored Major, Computer Science**

*Lassonde School of Engineering, York University*

2017.6 – 2017.8 **Machine Learning Certificate**

*Stanford University (via Coursera)*

2014 – 2016 **Advanced Diploma, Graphic Design**

*Seneca College*

## WHAT I AM DOING AND WHAT I DID

2019.9 – Present **Frontend Developer, IBM**

- Worked in an Agile, collaborative environment to understand requirements, design, code and test applications.
- Produced the front-end for web application with various technologies, but not limited to: **HTML**, **CSS**, **ReactJS**, **Angular**, **TypeScript**
- Implemented new features for Carbon Charts, provide unit tests and solve issues with **D3.js** and **Vanilla JavaScript**.
- Employed Design Thinking to create features that provide a great user experience.

2018.5 – 2019.4 **Computer Vision Research Assistant, York University CVR**

- Participated in Intelligent Systems for Sustainable Urban Mobility (ISSUM) project
- Evaluated and compared state of art algorithms for specified datasets via **Python** and **MATLAB**
- Assist postdoctoral fellows in research process with programming and Mathematical knowledge and skills
- Analyzed and tested Auto Camera Calibration with Manhattan Frame Estimation and Unsupervised Crowd Counting
- Took the initiative to learn the knowledge about computer vision algorithms (Geo Camera Calibration, SIFT, PCA, etc.)

2015.3 – 2015.9 **Graphic Designer, Solo Media**

- Design and create artwork including magazine and website with optimized UX
- Communicated with client on design product needs and request

## WHAT I HAVE DONE FOR FUN

**Rsme web application** (https://github.com/sophiiae/rsme)

- Built a web application that auto generates resume in PDF
- It gets user profile information with given binding permission from LinkedIn 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, including **request**, **PDFKit**, **xpath**, **xmldom**, **mustache-express**, etc.
- Deployed to AWS using Docker container (https://cloud.docker.com/u/sophiiae/repository/docker/sophiiae/rsme)

**Lane Detection** (https://github.com/sophiiae/AdvancedLaneDetection)

- Designed an algorithm to recognize lane marks from image and video without camera calibration
- It includes image color analysis, filtering, perspective transform and sliding windows
- The dataset is chosen randomly without camera specification
- The project uses **Python** libraries include **Matplotlib**, **OpenCV** and **NumPy**