Kevin Zhang

Full Stack Software Engineer

✉ mstr.zhang@gmail.com   🏠 mstrzhang.github.io   💼 linkedin.com/in/mstrzhang   ⬛ github.com/mstrzhang

🎓 EDUCATION

University of Toronto Scarborough

2015 to 2019 | Scarborough, Ontario

Honours Bachelor's of Science, Co-op Software Engineering Specialist
Recipient of UofT's Scholar's Entrance Award

💼 WORK EXPERIENCE

Systems Architecture Developer @ Municipal Property Assessment Corporation

May 2017 to present | Pickering, Ontario

- Built, developed, and deployed customizable SaaS property valuation engine for multiple external clients and internal use
- Produced internal design systems using Storybook and ensured code quality by building custom GitLab CI/CD pipelines and linting guideline scripts
- Created, deployed, and maintained geospatial analysis and visualization tool created using Mapbox, Angular, with a protocol buffer data pipeline
- Developed and designed a framework agnostic global enterprise search microservice using React, Elasticsearch; able to be integrated any internal microfrontend architecture
- Mentored and conducted rigorous code reviews for junior and co-op developers and participated in frontend architecture development with integration leads

Teaching Assistant @ University of Toronto Scarborough

January 2019 to April 2020 | Scarborough, Ontario

- Prepared and taught tutorial lessons for CSCB20 (Introduction to Databases and Web Development) and CSCC01 (Introduction to Software Engineering) with professors Abbas Attarwala and Ilir Dema
- Managed and presented classroom sessions to 60+ students
- Taught software engineering concepts such as agile / scrum methodology, architectural design patterns, RESTful API, relational database management, and many others
- Graded and assessed work ranging from quizzes, assignments, and examinations

🚀 FEATURED SIDE PROJECTS

Magic Maze

// Web-based multiplayer dungeon crawler game

- Made with React, NodeJS, PixiJS, GraphQL, MongoDB, and Apollo
- All players control every character but can only perform one type of action
- Supports concurrent actions between players
- Responsible for sprites, UI/UX design, and frontend infrastructure

T-Hub

// Web-based search engine

- Web based search engine made with Angular, Tomcat, SQLite, and Lucene
- Supports file download, indexing/searching, bookmarking, and upload
- Managed team of 5 members through development (both frontend and backend)
- Responsible for design and architecture of frontend and backend code bases

⚙ TECHNICAL SKILLS

Programming Languages

Python, Javascript, Typescript, HTML, CSS/SASS, Java, Groovy, C, Scheme, Haskell, Lua, SQL, Ruby, MATLAB

Libraries and Frameworks

Angular, React, VueJS, Jekyll, Mapbox, Storybook, Spring Boot, Django, Electron, jQuery, NodeJS, Express, Bootstrap, Semantic, Sanic, Flask

Tools

AWS, Kubernetes, Docker, Redux, MongoDB, PostgreSQL, MySQL, GraphQL, npm, Babel, Webpack, Bash, Git, Subversion, Apollo, JIRA

Design

Photoshop, Illustrator, Lightroom, Premiere, After Effects, Flash, Animate, XD

Spoken Languages

English, Mandarin

❇ CERTIFICATIONS

RCM Level 10 in Practical Piano Performance

RCM History and Theory: Advanced

⭐ INTERESTS

Music, photography, teaching, travelling, hiking, cooking, graphic design, video games