CHANGNING XIE Full Stack web/software developer

[**GitHub**](https://github.com/xiechangning20)**|** [**LinkedIn**](https://www.linkedin.com/in/changning-xie-235570171/) **|** [**Portfolio**](https://xiechangning20.github.io/)| xiechangning20@gmail.com

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**Skills**

**Front-End:** HTML5, CSS, JavaScript ES6, JQuery, Ajax, JSON

**Back-End:** Java, Node.js, MySQL, MongoDB, SQLServer, Redis, Maven, Gradle, JUnit, Swagger, Postman

**Frameworks:** Vue.js, Express, React/Redux, Bootstrap, Spring&Spring Boot&Spring Security

**DevOps and CI/CD:** Jenkins, Docker, Kubernetes, Ansible, AWS (EC2, RDS, SES), Git/GitHub/GitLab, SVN, Linux

**Philosophies:** Restful, MVC, OOP, SaaS, Agile/Scrum, Data Structure/Algorithm

**Work Experience**

**Software/Web Application Developer August 2020 - November 2020** **JDZT Co., Ltd - Chengdu, Sichuan, China**

**Worked with an Agile team to develop a cloud-based big data platform using Spring Boot and Vue.js**

* Developed backend RESTful APIs to achieve CRUD purposes for geotechnical data including underground exploration and project information based on 3-tier architecture
* Developed a backend API to achieve CAD engineering DWG file previewing using the QCAD open-source API
* Developed specific Java data objects to import engineering exploration data from a third-party API
* Worked with front-end developers and software test engineers to fix bugs and documented the process flow
* Conducted web service design, deployment and documentation
* Conducted research into new technologies, including tools, components, and frameworks
* **Toolkit: Java 8, Spring boot, Spring Security, Vue.js, MySQL, Redis, Tomcat, Swagger, GitLab, Jenkins, IntelliJ Idea, Visual Studio Code**

**Personal Projects**

**Clay Music Shop** View [Demo](http://54.183.150.44:8080/Myshop/web/index.jsp)/[Code](https://github.com/xiechangning20/Java-MVC-E-Commerce)

**An e-commerce web application using Java MVC and OOP design pattern**

* Main functions include user registration (email activation) & authentication, product details, shopping carts, delivery address and order placing
* **Toolkit: Html, CSS, JavaScript, JQuery, Ajax, Bootstrap 4, Java 8, JSP, MySQL, AWS (EC2, SES), Eclipse, Maven, Jenkins, Docker, Ansible**

**MusicGram** View [Demo](https://secure-sands-11610.herokuapp.com/)/[Code](https://github.com/xiechangning20/MusicGramP)

**A MERN stack social network web app for musicians**

* Main functions include user registration & login, user profile (audio upload & streaming, YouTube video streaming) and user networking (share posts and comments with each other)
* **Toolkit: HTML, CSS, JavaScript, Node.js, Express, React/Redux, MongoDB, Postman, Heroku, Visual Studio Code**

**Android Earthquake Listener** View [Code](https://github.com/xiechangning20/Android-EarthQuake-Listener)

**A web app that provides update of earthquake data extracted from USGS based on Google Map**

* **Toolkit: Java, Android Studio, Gradle, Google Map API**

**Education**

**Master of Engineering:** Civil and Environmental Engineering September 2018 – May 2020

**University of Ottawa –** Ottawa, ON

**Relevant courses**:

Advanced Data Technology in Road Safety Analysis, Transportation Network Data Analysis