

# Cong (Chloe) Zeng

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## EDUCATION

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### •North Carolina State University

2023.08 - 2024.12 (expected)

Master of Computer Science, USA

### •Wuhan University

2018.08 - 2022.06

Bachelor of Information Management and Information System (**Top 1**), China

GPA: 3.6/4

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, Shell

**Frameworks/Libraries:** React.js, Angular.js, Spring Boot, Spring MVC, Cypress, Cucumber, Selenium-webdriver

**Developer Tools:** Git, VS Code, Maven, Gradle, Node.js, Docker, Kubernetes, Postman, Charles

**Cloud/Databases:** Google Cloud Platform (GCP), Mysql, PostgreSQL

**Soft Skills:** Test-Driven Development (TDD), DevOps, Cloud Native, CI/CD, Refactoring

## WORK EXPERIENCE

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### •Thoughtworks

2022.08 - 2023.06

Software Development Engineer and Quality Analyst, Full-time

Shenzhen, China

- 3 Projects with **Agile Methodologies**: Days Sales Outstanding (DSO) System Development, Cryptocurrency Trading Website Development and Paperless Platform Development for Hospital.
- Designed **RESTful API** and developed core functions utilizing **Spring Boot** and **PostgreSQL**. Implement retrieval functions by **ElasticSearch**, combining with business requirements. Developed front-end interface by **JavaScript** and **Angular.js**. Achieved unit test coverage rate over 70% using **Test-Driven Development (TDD)** methodologies during the development process.
- Utilized the cloud-native programming language **Pulumi** to build the infrastructure, using **CircleCI** to build the CI/CD pipeline, integrated with the **Google Kubernetes Engine (GKE)** provided in Google Cloud.
- Designed and implemented **API and End-to-End tests** and integrated them into CI/CD Pipeline to manage and guarantee the quality in continuous integration process.
- Designed test cases before development, overall 1000+ pieces of test cases. Performed testing after development with introducing and developing an automated testing framework by **Cypress**.
- Used **Cloud Logging** for daily online issue monitoring and performed root cause analyzing of online issues regularly.

## PROJECTS

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### •Patent Literature Technical Efficacy Matrix Construction

2022.01 - 2022.06

Graduation Thesis

- Tools & technologies: Natural Language Processing (NLP), BERT-BiLSTM-CRF Model, Sequence Annotation, Named Entity Recognition (NER), Python
- Utilized BERT as a backbone model for automating the identification of technical and efficacy words in patent documents and generated technical efficacy matrices through the use of clustering algorithms such as K-Means.

### •Quantitative Analysis of Chinese Poverty Alleviation Policy Text

2021.03 - 2021.06

Team Lead

- Tools & technologies: Topic Extraction, Latent Dirichlet Allocation (LDA), Visual Analysis, ECharts, Crawler
- Crawled Chinese poverty alleviation policy text, implemented LDA model to achieve automated topic extraction of text, and finally realized visual chart analysis of time dimension, topic intensity and other dimensions by ECharts.

### •Design of College Study Guide Application

2020.01 - 2020.05

Team Lead

- Tools & technologies: User Experience Design, Competitive Analysis, Product Design, User Journey Design, Azure
- Designed and implemented a platform that connects university tour guides with students seeking group study tours to famous universities in China. The platform efficiently matches the needs of both parties, providing a seamless and valuable experience for all users.