

Mengchen Gao

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TECHNICAL STRENGTHS

Languages	Java 8, JavaScript, SQL, Shell, HTML, CSS
Frameworks & Tech Systems & Tools	Spring Boot/ MVC, Hibernate, Node.js, RESTful, MySQL, MongoDB, Kafka, Elasticsearch AWS, Git, Docker, CircleCI, Linux, IntelliJ, Visual Studio, Jira

EDUCATION

Expected April 2021	Northeastern University · GPA: 3.67/4.00 · Relevant Courses: Cloud Computing, Web Development, Data Structure & Algorithm, QA	Master - Information Systems
Sep 2014 - Jun 2018	Beijing University of Technology · GPA: 3.84/4.00 · Awards: National Scholarship of Graduate Students, National Bronze Award at China Students' Entrepreneurship Competition	Master - Software Engineering

WORK EXPERIENCES

Dec 2019 - Present	CryptoAlgoWheel (app.cryptotalgowheel.com/coin-monitor) · Built data processing module of a cryptocurrency market data API product · Implemented ETL to parse crypto data from Kafka and load into InfluxDB and Elasticsearch · Dockerized ETL and created pipeline on AWS by using CodePipeline , ECR · Created telegram bot to monitor data consistency and server stats in real time without SSH to server	Software Engineer (Volunteer)
July 2018 - Sep 2018	Danhe Biotech Industry Social Network · Worked on building backend of a social network for biotech industry · Designed and implemented API service by using Node.js , Express.js and MySQL	Software Engineer (Volunteer)
Sep 2014 - Jun 2017	Course: Foundation of Information Security, and Network Security · Organized bi-weekly TA session, code review, Graded quiz, assignments, and exam · Instructed course lab, including DES crypto algorithm implementation, DES & AES comparison, encrypting chatting message based on Socket and encrypt with DES implementation, etc.	Teaching Assistant

PROJECTS EXPERIENCES

Jan 2020 - Present	Billing Management Web Application on AWS · Implemented a web application with Restful API according to the API specs (including CRUD operation on user, bill, attachments, etc.) by using Spring-Boot with Hibernate · Designed token-based authentication with Bearer Token · Stored data into relational database (MySQL) · Deployed the application on AWS EC2 instance with S3 (store file) and RDS (store data) · Using Packer , AWS CLI and CloudFormation to manage auto deployment · Combined auto deployment with CircleCI	Java Web & AWS
Oct 2019 - Dec 2019	Non-profit Healthcare Resource Integration Platform · Developed a platform that integrates non-profit healthcare resources including online clinic, medicine stock managements and fund management · Finished UML design for application, such as use case diagram, class diagram, etc. · Built the online clinic platform as a desktop application by using Java 8 and Swing · Processed data with complex relationship between different models to achieve business logics · Persisted partial data into RDS through AWS Lambda	Java 8 & AWS
Dec 2017 - Jun 2018	Data Preservation System · Won National Entrepreneurship Competition with this project. Targeted to solve the un-trust problems for P2P platforms and intellectual property protection. · Built RBAC by using Spring Security and customized authentication rules · Designed data preservation algorithm to preserve time-sensitive and content-sensitive data · Implemented UI based on Bootstrap and JSP , server-side by Spring MVC and Hibernate	Java Web