

Chuqi Zhang

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EDUCATION

Texas A&M University

College Station, TX

Master of Computer Science; GPA: 4.0 / 4.0

Aug 2021 – May 2023(Expected)

- Relevant Coursework: Software Design, Distributed System and Cloud Computing, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Data Mining and Analysis.

The Ohio State University

Columbus, OH

Bachelor of Science, Applied Mathematics; GPA: 3.6 / 4.0

Aug 2017 – May 2021

- Relevant Coursework: Object-Oriented Programming, Data Structure and Algorithms, Operating System, Advanced Discrete Mathematics.

TECHNICAL SKILLS

Programming Languages: Java (Primary), JavaScript, C++/C/C, Python, Ruby, HTML, CSS

Web Framework & Database: Node.JS, SpringBoot, MongoDB, MySQL, RxJs, Bootstrap, Vue, MyBatis

Other Skills: TensorFlow, Pandas, Numpy, AWS, Git, Azure, LaTeX, MATLAB, Mathematica

EXPERIENCE

S tech

Beijing, China

Software Engineer Internship(Unpaid)

May 2019 - Aug 2019

- Developed customer management system using SpringBoot, Spring MVC, Thymeleaf, Spring Data JPA, and MySQL.
- Debugged and tested existing code with SpringBootTest and MockMvc, achieved 74% coverage.
- Contributed Java Math, Algorithm, and Data Structure library, wrote classes including Stern–Brocot tree, Fibonacci heap, and Scapegoat tree.

The Ohio State University College of Engineering

Columbus, OH

Student Instructional Assistant

Aug 2019 - May 2021

- Undergraduate instructional assistant for Introduction to Programming C++ and Data Structures Using C++.
- Held office hours, graded homework and projects, made quizzes, helped students during laboratories, organized in-class discussion, and proctored exams.
- Implemented auto-grader with instructor, which reduced average grading time of coding assignments by 70% .

PROJECTS

Algo Wiki | Full Stack Knowledge Management Web Project

Jun 2021 - Dec 2021

- Built asynchronous full stack RESTful website with **Java SpringBoot**, **Vue3.js**, **Ant Design**, and **Mysql** database.
- Integrated with **MyBatis**, completed back-end, framework Validation, and unified exception handling.
- Added SpringBoot filter, eliminated front and back end integration problems, managed project using **Maven** and **Git** Hot Deployment, and deployed front end using **Nginx**.

NXTFolio | Full Stack Commercial Web Project

Oct 2021 - Dec 2021

- Followed agile SCRUM development methodology, used **Ruby on Rails**, **CSS**, **HTML**, **BDD**, and **MySQL**, and completed unit testing with **Cucumber** and **RSpec**. Improved profile page user interface, authentication, and searching logic.
- Held weekly meetings with group members and project manager; generated project reports.

Lyft Motion Prediction for Autonomous Vehicles | Kaggle Hosted Code Competition

Sep 2020 - Dec 2020

- Collaborated with teammates predicted the motion of moving objects on the road for self-driving vehicles.
- Performed **EDA** and built a model on the world's largest self-driving data set by utilized different python libraries (**NumPy**, **pandas**, **matplotlib**, **PyTorch**, **OpenCV**, and **Lyft l5kit**).
- Constructed a model with 8% improvement than original ResNet. Ranked 95/935, and won a Bronze medal.

ISki | Full Stack Ski Resort and Equipment Sharing Web Project

May 2020 - Jul 2020

- Built website interface (include registration and login pages) with **HTML**, **CSS**, and **Bootstrap**.
- Defined **RESTful Routes**. Constructed extensive backend API with **Node.Js**, **Express**, **AJAX** and **MongoDB**.
- Developed user authentication and authorization, messages notifications, and map features.