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

PARATERA   Beijing, China
Software Engineer Internship   *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.