

CHENXU YANG

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EDUCATION

Columbia University	08/2019 – 12/2020
M.S. in Mechanical Engineering	New York, NY
GPA: 3.83	
Xi'an Jiaotong University	08/2015 – 07/2019
B.S. in Aircraft Design and Engineering	Xi'an, CN
Relevant Courseworks: Fundamental of Computers, Analysis of Algorithm, Databases, Cloud Computing, C++ Programming, Web Programming, Evolutionary Algorithm, Robot Learning, Robotics, AI, NLP, Data Science	

TECHNICAL SKILLS

Computer Language : Python, Java, C++, JavaScript, HTML/CSS, SQL, Golang, Linux Shell

Framework and Tool: MongoDB, DynamoDB, Neo4j, jQuery, Bootstrap, React, Node.js, Webpack, AWS, Flask, Git, ROS

WORK EXPERIENCE

Tencent Technology Co., Ltd	06/2020 – 08/2020
<i>Software Development Engineer Intern</i>	
<ul style="list-style-type: none">Redeveloped an open source API management platform based on React and Node.js, customizes its authorization system in both front-end and back-end and integrated it into the company's network environment.Bundled all modules with Webpack and deployed the platform on a Linux cloud server, applied MongoDB for data storage and Git for version control.Deployed NGINX for reverse proxy and load balancing to make the platform efficient for hundreds of employees.	

PROJECT EXPERIENCE

Travel website based on AWS	09/2020 – 11/2020
<ul style="list-style-type: none">Built a travel websites with Flask, deployed on Beanstalk and integrated with Lambda functions.Implement RESTful APIs and login/signup with Amazon RDS combined with email verification and JWT authentication.Developed comment model with user association and stored in DynamoDB.Deployed Catalog Service on Amazon ECS, and used Amazon RDS for storage.	
Full-stack Movie-Discussing Website	03/2020 – 04/2020
<ul style="list-style-type: none">Lead a team to build a RESTful web app with Node.js where users can register to share their favorite movies, upload pictures, post reviews and leave comments with user associations.Optimized the layout and used Bootstrap 4 to make the website responsible and mobile-friendly.Implement API endpoints for each model, tested and documented by Postman.Managed user data through MongoDB and attained user authentication with JWT & Cookies.Enhancing API security by sanitizing data and adding XSS protection, security headers and rate limiting.	
Serverless Restaurant Reservation Web	02/2020 – 03/2020
<ul style="list-style-type: none">Built a serverless and smart restaurant reservation web with AWS S3, API Gateway, Lambda, DynamoDB and Cognito.Create chatbot using Lex, adopted SQS queue to store information and sent the message by SNS and CloudWatch.Crawled all Manhattan restaurant information in Yelp with Requests and stored in Elasticsearch for further search.	
Face-detection Web App	01/2020 – 02/2020
<ul style="list-style-type: none">Built a web app with React and Node.js which can detect the human face of the picture that user upload.Used React to implement the front-end to make the website responsible, and achieved face detection with Clarifai API.Implemented a responsible server with Node.js and express.js, and connected to PostgreSQL for storing user information.	

