

CHIQU LI

<https://aachiii.github.io/PersonalWebsite/>

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EDUCATION

Columbia University	09/2019 - 12/2020
Master of Science, Mechanical Engineering (Robotics)	New York, NY
Wuhan University	09/2015 - 06/2019
Bachelor of Engineering, Power System	Wuhan, CN
Relevant Courseworks: Cloud Computing & big Data, Databases, Deep Learning, Data Science, Evolutionary Algorithm	

SKILLS

Programming: Python, Java, JavaScript, C/C++, SQL, HTML, CSS, Node.js, jQuery, Linux Shell
Tools: AWS, Microservices, React, Django, Flask, Kafka, RESTful, Git, SageMaker, DynamoDB, TensorFlow

INTERNSHIP

Back-end Intern , Gridology -- New York, NY (Remote)	05/2020 - 08/2020
<ul style="list-style-type: none">Redesigned and implemented Django PostgreSQL database, optimized the performance of the website.Created multiple RESTful APIs for the frontend getting different data structures dynamicallyDesigned web crawlers on multiple university websites through BeautifulSoup and selenium, improved the scraping efficiency by 50% and deployed it on the server for automatic crawler and data analysis	

PROJECTS

Intelligent Door Access System	03/2020
<ul style="list-style-type: none">Established a distributed system on AWS aiming to give access to visitors by recognizing faces and notifying ownersDesigned front end portals for visitors/owners and integrated two web pages with API Gateway and SwaggerProcessed streaming video by Kinesis Video Streams and sent one-time-password to open the doorEnabled system to send SMS requesting access if it's an unknown visitor and stored new faces into DynamoDB	
Full Stack Blog Web Application	01/2020
<ul style="list-style-type: none">Built by Flask and RESTful, users can log in, create, update and delete their existing blog postsUsed HTML templates, node.js, and WTForms to accept user inputs and used SQLAlchemy as an ORM for a databaseDeveloped this application on local Git, synchronized to Github where remote web server could pull directly	
Restaurant Reservation Serverless Website	02/2020
<ul style="list-style-type: none">Built a serverless and smart restaurant reservation web with AWS S3, API Gateway, Lambda, DynamoDB and CognitoCreated chatbot using Lex, adopted SQS queue to store information and sent the message by SNS and CloudWatchCrawled all NYC restaurant information in Yelp with Requests and stored in Elasticsearch for further search	
Genetic Programming Evolved Robots	09/2019 - 12/2019
<ul style="list-style-type: none">Created a 3D evolved running robot by 5000 generations and integrated multiple evolving methods in C++Strengthened GP selection method by using Deterministic Crowding and Hierarchical Fair CompetitionModeled and Visualized the evolutionary process by OpenGL	

AWARDS

Excellent Student Scholarship	2017 & 2018
1st Prize in National Energy Saving & Emission Reduction Technology Competition	2018
Women's Team Championship of the College Student Tennis Competition of Hubei Province	2017