

CHENYU XI

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EDUCATION

Columbia University

New York, NY

M.S. in Electrical Engineering | Data-driven Analysis

Expected in Dec 2019

Courses: Algorithm, Computer Networks, Database, Cloud Computing & Big Data, Natural Language Processing, Reinforcement Learning

GPA: 3.835/4.00

Tianjin University

Tianjin, CN

B.S. in Electrical Science and Technology

Sep 2014 – Jul 2018

GPA: 3.73/4.00 (top 5%)

TECHNICAL SKILLS

Programming Language: Python, Java, JavaScript, HTML/CSS, SQL

Frame/Tool: Linux, Git, Flask, Express, Node.js, MongoDB, AWS, PyTorch

PROJECTS

AWS Serverless Dining Assistant

Feb 2019 – Current

- Building a dining concierge chatbot, which offers restaurant suggestions through chatting with users
- Building a chatbot using Amazon Lex; Building web frontend with HTML/CSS
- Yelp API is used to make a recommendation, using API Gateway to setup chat API
- Developing authentication system using Cognito

To-Do API

Jan 2019

- Designed a RESTful API with Node.js using Express that allows users add/check to-do events online
- Adopted MongoDB for data management using Mongoose, added security features with token authentication
- Wrote test cases for API using Mocha, deployed API on Heroku

NYC Jobs Web Application

Oct 2018 – Nov 2018

- Designed 3NF normalized NYC Job information database based on NYC open job dataset, using PostgreSQL
- Compiled webserver using Python Flask. Built web frontend with HTML/CSS
- Designed User/Admin Login system based on Flask-Login. Allow users to search jobs and add applications; Allow admins to add/delete positions and view user applications, using SQLAlchemy and JavaScript
- Visualized NYC salary distribution using JavaScript

Content Delivery Network

Oct 2018 – Nov 2018

- Designed a HTTP proxy with Python socket programming that monitors connection throughput value in real-time and streams the highest quality encoding that the connection can handle

Android Apple Ranking Application

Sep 2018

- Designed android app that allows users to check top downloaded songs/movies/paid apps in iTunes Store
- Obtained ranking information and icon URL from Apple RSS Feeds by parsing fetched XML file
- Designed a menu allow users switch ranking board between different areas

RESEARCH EXPERIENCE

Neural Acoustic Processing Lab, Columbia University

Feb 2019 - Current

Research Assistant

- Conducting music sources separation with neural networks: Applying Deep Clustering and CNN in order to separate music signals with regard to different sources using PyTorch
- Clustering same source T-F bins by assigning d-dimensional embedding