

Congcheng (Gavin) Gong

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Website: coochg.me || Available January-August 2021

EDUCATION

Northeastern University

Sep 2019 - Dec 2021(Expected)

Master of Science, Computer Engineering

GPA 3.7

Courses: Data Structure & Algorithms, Database Management Systems, Computer Networks, Data Visualization

Beijing University of Civil Engineering and Architecture

Sep 2015 - Jul 2019

Bachelor of Engineering, Automation, *Dean's List*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS

Databases: MySQL, MongoDB, Google Firebase

Frameworks: Node.js, Express.js, React, Redux, Django, Bootstrap

ACADEMIC PROJECTS

Northeastern University, Boston, MA

Reducing Emissions by Exploring U.S. On-Road CO2 Emissions

Sep 2019 – Dec 2019

- Built ER Diagram and inner restrictions for over 35k data database, resulting in a clear blueprint
- Contributed to the backend design by using **Django REST** framework to build API
- Loaded sample data into the database for testing
- Executed Kepler.gl for 3D data visualization of 3000+ counties' population density and CO2 emissions

“Call It” - Sports Facilities' Share Platform

Nov 2019 – Jan 2020

URL: <https://obscure-inlet-65054.herokuapp.com/>

- Designed a cloud native MEAN-stack sports facilities web application with object-oriented organization database to manage massive data with low latency
- Developed the frontend with **JavaScript**, **Bootstrap**, **CSS** and **jQuery** to display experiences posts, photos publishing, comments and rating of sports facilities
- Implemented the backend using **Node.js** and **Express.js**
- Utilized **MongoDB** as storage, and integrated authentication authorization by **Passport.js**

DevChat - Slack Chat App

Jul 2020 – Sep 2020

URL: <https://react-slack-clone-b784b.web.app/>

- Developed full-stack apps with **React**, **Redux** and **Firebase**, among other tools in the React ecosystem
- Created complete React apps from setting up their dev environment to deployment on the web
- Utilized stunning user interfaces with **Semantic UI React** (e.g., Custom animations to see when other users are typing)
- Implemented **RESTful APIs** using **React-Router** and integrated **Google Firebase** to conduct authentication and database

PROFESSIONAL EXPERIENCE

Research Center for Brain-inspired Intelligence, Institute of Automation, Chinese Academy of Sciences

Embedded Software Intern

Jun 2018 - Aug 2018

- Worked in a team of 5 responsible for the design and verification of smart robot programming
- Contributed to the testing parameter and debugging of the robot car in ROS environment, increasing 25% of the speed rate to trace the object
- Trained 2 new staff numbers regarding the robot car assembling to provide team-oriented service