

SEAN CAO

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EXPERIENCE

Front-End Development Intern, Columbia University, Lamont-Doherty Earth Observatory

Jun 2018 - Aug 2018

- <https://www.rvdata.us/>
- Developed the front-end and assisted the development of a REST API for searching and displaying maps and metadata of research vessel expeditions using AngularJS, Bootstrap, OpenLayers, PHP, and PostgreSQL
- Developed Python scripts for aggregating and visualizing Apache access logs for analyzing user search tendencies
- Streamlined the UI and search functionality based on user data

Freelance Photographer

Nov 2018 - Present

- Worked with event sponsors to photograph and advertise their products
- Photographed large group events for publication across all digital platforms

FREELANCE PROJECTS

Notepad Web Application

August 2019 - Present

- Developing a rich-text editor that is connected to a database to allow for linking items from the database to notepads through Facebook-like mentions using the MongoDB, Express, React, Node.js, and Slate.js

SEC EDGAR Scraper

June 2019

- Developed a python web scraper used to aggregate and analyze financial data by date on the SEC EDGAR website for a Point72 employee

COURSE PROJECTS

Gradebook iOS Application

October 2019

- Used OOP methodologies to develop a mobile app for tracking student grades and calculating course averages using Objective-C

Chatterbox

Mar 2019

- Implemented a signal encryption clone for peer to peer messaging encryption using Go

Bang for Your Buck Web Application

Mar 2018 - May 2018

- <https://bang-for-your-buck.herokuapp.com/>
- Built a web application for creating and sharing project material budgeting plans using Node.js, Express, HandleBars.js, and MongoDB

TECHNICAL SKILLS

Languages:

- JavaScript ES6 (Advanced)
- Python (Intermediate)
- Java (Intermediate)
- C (Intermediate)
- Objective-C (Intermediate)
- Swift (Intermediate)
- Go (Basic)
- PHP (Basic)
- HTML 5/CSS (Advanced)

Database Management:

- MySQL
- MongoDB
- PostgreSQL
- SQLite

Libraries:

- JQuery
- HandleBars.js
- OpenLayers

Front-End Frameworks:

- React
- Angular.js
- Bootstrap 4

Back-End Technologies:

- Node.js
- Express
- Mongoose

Web Services:

- REST API

DevOps:

- Scrum Framework

Tools:

- Git
- Xcode
- VS Code
- Eclipse
- Grunt

EDUCATION

New York University, B.A. Computer Science

Expected Dec 2019

GPA: 3.65/4.00

Related Computer Science Coursework:

- Applied Internet Technology
- Computer Networks
- iOS Programming
- Agile Software Development
- Database Design and Web Implementation
- Computer Security
- Parallel Computing
- Basic Algorithms
- Operating Systems
- Computer Systems Organization
- Data Structures
- Discrete Mathematics

LEADERSHIP

Encounter Club Treasurer and Social Media Head

Nov 2017 - Present

- Managed the budgeting of \$2500, allocating funding to community outreach and club events
- Organized, advertised, and hosted weekly events consisting of 100 people
- Led a team of 5 people to build and transform our social media on Facebook and Instagram

OTHER SKILLS

- Fluent in English and Mandarin
- Photography
- Photoshop