Audrey Jo

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EDUCATION

Northeastern University, *Boston, MA*   January 2020 – August 2022
  Master of Science in Computer Science, GPA: 3.8/4.0
California State University*, Long Beach, CA*   January 2014 – January 2016
  Master of Arts in Geography
University of North Carolina*, Chapel Hill, CA*   August 2010 – December 2013
  Bachelor of Arts in Geography

PROJECTS

***Hello Leafy Android app**, Northeastern University*   January 2022 – April 2022
- Developed an Android mobile app with 3 other students to provide a place for people to share their love of green
- Used Java, Cloud Firestore, Cloud Storage to develop the back end

***Plant Care Website**, Northeastern University*   September 2021 – December 2021
- Made a MERN website for beginners at raising plants who want reliable, non-conflicting advice on raising plants
- Constructed a forum and a search tool for getting general plant information from a public API

***Jeopardy API**, Northeastern University*   September 2021 – December 2021
- Turned jeopardy data in JSON format into an API with data stored in MongoDB Atlas
- Generated documentation for the API using Swagger UI

***Picture of the Day from NASA website**, Northeastern University*   September 2021 – December 2021
- Built a website using an API from NASA for getting picture of the day for a given date
- Developed the website using Node.js and Express.js

***Conference Web App for amplification research study**, Northeastern University*   July 2020 – September 2020
- Collaborated with Dr. Adrienne Slaughter and a team of 4 to create a video conference web app for a remote study about the effect of amplification on allyship
- Implemented the back-end architecture for the app using Spring Boot in Java and MySQL database

***Shopper Data Generator with API**, Northeastern University*   May 2020 – August 2020
- Collaborated with a team of 3 to produce a data generator for producing mock shopper behavior data to predict shopper behavior given various conditions, such as store events and weather
- Designed a REST API to access and query the shopper data using the flask and rest-plus modules in Python

***Easy Animator**, Northeastern University*   March 2020 – April 2020
- Created an animator that converts a text file into an SVG file or plays an animation using Java and Swing

TECHNICAL KNOWLEDGE AND SKILLS

Skills: relational databases, NoSQL, web development, API development, mobile app development, distributed systems
Programming Languages: Python, Java, HTML, CSS, JS, Node.js, ReactJS, Android Java
Databases: MySQL, MongoDB, Firebase Realtime Database, Cloud Firestore, Cloud Storage

PROFESSIONAL EXPERIENCE

***GIS Analyst**, DCSE, Laguna Hills, CA*   March 2017 – April 2019
- Smart agriculture dashboard for reducing water consumption
  : Led a team of 3 to automate the process of adding data to the back-end server using command line, SQL, and Python, which resulted in a constantly up-to-date platform and increase in budget for the project
- Website development for a 3D indoor view of an airport
- AR/VR mobile app for visualizing underground pipes
- Fieldwork management dashboard
  : designed an easy to access dashboard for managers to supplement the software for tracking fieldwork, which led to an increase in number of new customers showing interest in the software
- Indoor navigation app
  : Led multiple small, short-term teams to produce a series of demo products by learning new software, delegating work to developers and other GIS analysts for faster and high-quality delivery

***Graduate Research Assistant (NSF-funded)**, California State University, Long Beach*   January 2014 – October 2015
- Automated satellite imagery downloads and geospatial analyses using Python, giving more time to conduct a more robust and comprehensive research

***Cartographic Research Assistant**, University of North Carolina, Chapel Hill*   August 2013 – December 2013
- Edited attribute information on the digitized maps of the Mediterranean from archaic Greece to the Late Roman Empire
- Wrote a Python script to join multiple csv files to an attribute table of a shapefile, containing geographic information