Audrey Jo

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Available to start immediately

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, NC*   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 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 an agile team of 3 to develop a data generator for producing mock shopper behavior data
- 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, SQL, web development, API development, mobile app development, distributed systems
Programming Languages: Python (6 years), Java (2 years), HTML, CSS, JS, Node.js, ReactJS, Android Java
Graduate Courses: Building Scalable Distributed Systems, Mobile Application Development, Web Development, Algorithms, Database Management Systems, Algorithms and Computer Systems, Object Oriented Design, Foundations of Software Engineering, Discrete and Data Structures

PROFESSIONAL EXPERIENCE

***Geographic Information Systems (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, MySQL Server, 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 a dashboard for managers to track fieldwork, which led to an increase in new customers showing interest in the software
  : worked in a collaborative Agile team and used agile software development tools such as Azure DevOps, Git and GitHub
- 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
- Edited bash and Python scripts to run an automated program that takes satellite imagery and outputs vegetation indices
- Developed indoors navigation for an airport using ArcGIS Indoors and FME
- Developed Operations Dashboards, Web AppBuilder Apps, and CityEngine Apps to automate workflows for local agencies
- Created network datasets for Web AppBuilder widgets and indoors navigation using Network Analyst extension for ArcGIS
- Converted 2D datasets into 3D and created 3D Web AppBuilder Apps for an airport using Esri CityEngine

OTHER EXPERIENCE 6 months of international travel to South Korea, Australia, France, and Iceland   April 2019 – October 2019