

# Audrey Jo

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## PROFESSIONAL EXPERIENCE

**Software Developer**, *Johnson & Johnson, Providence, RI* August 2022 – Present

- design software as an agile team member
- build microservice platforms using JavaScript

**Geographic Information Systems (GIS) Analyst**, *DCSE, Laguna Hills, CA* March 2017 – April 2019

- Smart agriculture dashboard for reducing water consumption  
: Automated the process of adding data to the back-end server using command line, MySQL Server, and Python
- 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  
: Produced a series of demo products by learning new software and collaborating with developers

**Graduate Research Assistant (NSF-funded)**, *California State University, Long Beach* January 2014 – October 2015

- Edited bash and Python scripts that downloads satellite imagery, runs geospatial analyses and outputs burned area maps
- Analyzed burned area maps using datasets with different spatial and temporal resolutions
- Classifying burned areas in Landsat image using ENVI

## EDUCATION

**Northeastern University**, *Boston, MA* January 2020 – December 2022

**Master of Science in Computer Science**, GPA: 3.7/4.0

**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

**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