

Lindsee Purnell

Email: lindsp14@uw.edu | Github: [Linnypurr](#) | Website: linnypur.me

PROJECTS

Cloud Probability—Python, ReactJs

- Available here: <http://cloudy.linnypur.me/>
- [Open Weather Map API](#) provides data to Python backend which makes estimations of what cloud formations may be in the sky.
- Built a RESTful API library that derived probabilities and managed resources.
- Made a frontend website using ReactJs that allows the user to interact with the webservice.

Twitter Sentiment—Python

- Used Twitter's Tweepy library to parse and aggregate over 10,000 tweets for analysis.
- Analyzed parsed tweets using a NLP library to determine emotional connotation of statements.
- Created view of data to show positive and negative sentiment towards the given topic.

Color Functionality—GO

- Contributed to an existing open source communication application, SSH-Chat.
- Leveraged Docker to develop in a containerized development environment.
- Designed a feature to give the user the ability to change their color in an active chat session.

Bitmap Manipulation—C

- Developed a program that manipulates the pixels of a bitmap image to generate various effects.
- Added functionality that includes mirroring, flipping, inverting and contrasting the image.
- Implemented a command line interface for image selection and flag parsing.

PowerPaint—Java

- Implemented the Model View Controller design pattern to develop a program users can paint on.
- Designed a variety of tools for users to interact with by using Object Oriented Programming concepts.
- Constructed customization options that modify the tools when drawing.

Portfolio Website—HTML, CSS

- Personal website hosted in the cloud by leveraging DigitalOcean's droplet infrastructure.
- Set up Nginx to direct traffic to both the portfolio and cloud probability project.

EXPERIENCE

Corporate Functions Intern —Weyerhaeuser, Seattle, WA.

January 2019 - June 2019

- Developed backend script to a RESTful API in C#.
- Applied Builder Design Pattern to efficiently create complex objects parsed from XML
- Facilitated in a company wide migration from SharePoint 2010 to SharePoint Online.
- Utilized Microsoft Azure Services to transfer website libraries and metadata to the cloud.

Instructor —Coding with Kids, Gig Harbor, WA.

May 2016 - July 2018

- Taught programming fundamentals in Scratch to children of all ages.
- Instructed a web development class that focused on animations in Javascript and HTML.
- Presented and organized curriculum for a beginner Python class.

EDUCATION

Bachelors of Science in Computer Science and Systems

September 2016 - June 2019

University of Washington Tacoma, Tacoma, WA

Classes: Operating Systems, Natural Language Processing, Java Practicum, Discrete Mathematics, C System Programming, Data Structures, Algorithms, Human Computer Interaction

Associates of Arts and Sciences

November 2013 - March 2016

Tacoma Community College, Tacoma, WA.