Andrew Iliescu

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SUMMARY

B.S. Computer engineering graduate with experience in frontend and backend web development, embedded software development, android app development, and software application development. Numerous and diverse, hands-on, team-based computer engineering project experiences. Currently working as a programming tutor, teaching proper coding practices and reinforcing object-oriented programming concepts in both Java and Python. Skilled in working in a Linux development environment, as well as with networking tools and practices.

EDUCATION

B.S. Computer Engineering | Milwaukee School of Engineering | GPA: 3.5 | Graduated May 2021
Minors in Mathematics & Business Administration

PROJECT EXPERIENCE

Prims Algorithm Implementation | Python
Project: Develop a program that creates a weighted graph which is traversed using Prims algorithm by starting at an arbitrary node to generate a minimum spanning tree containing all of the nodes.
- Created graph and tree data structure classes in Python to generate and store data.
- Made a demo using Matplotlib and NumPy to show the shortest path between nodes and highlight run time complexity.

Smart Brain | React.js-Express.js-PostgreSQL
Project: Develop web application that allows users to search images for faces, highlight found faces on the image, and keep track of the number of queries completed.
- Built responsive frontend using React so users can access the site on their medium of choice.
- Developed ability to highlight the faces found in an image using Clarifai API.
- Handled HTTP requests using Express and exchanged data via JSON to update webpage in real time.
- Hashed sensitive information before sending it to the backend to implement proper security practices.
- Stored user credentials and information in a PostgreSQL database to persist the data.

Flashboard Android App | Java
Project: Build an Android app for car enthusiasts and racers to provide real time data while in use and the ability to store and parse gathered information for later review.
- Displayed speed values and created a visual for the g-forces the car was experiencing by utilizing phone's sensors and Google's FusedLocationProvider client to gather data.
- Data was persisted using a Realm database and could be exported to a CSV document for later review.
- Integrated Google maps to plot the user's course along with accompanying data right through the app.

TECHNICAL SKILLS

- Java
- JavaScript
- Python
- C
- React.js
- Node.js
- Git
- C++
- Linux
- SQL
- NoSQL
- Terminal

WORK HISTORY

Programming Tutor | Self-Employed | January 2020 to Present
Golf Caddie | Westmoreland Country Club | June 2015 to Present