Anthony M. Porturas

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Education

Rutgers, The State University of New Jersey, New Brunswick, NJ — January 2019
M.S. in Computer Science GPA: 3.7/4.0

Rutgers, The State University of New Jersey, New Brunswick, NJ
B.S. in Electrical and Computer Engineering, Minor in Computer Science — May 2015
Overall GPA: 3.7/4.0 Major GPA: 3.8/4.0 — Summa Cum Laude

Select courses: Robotics & Comp. Vision; Pattern Recognition; Big Data Analytics & Text Mining; Info. & Database Management; Brain-Inspired Comp.; Massive Data Retrieval & Deep Learning

Skills

Languages: (proficient) Java; (intermediate) C/C++, C#, Python, SQL; (beginner) Scala, JavaScript, HTML/CSS
Technologies: Git, CUDA, Spark, PyTorch, TensorFlow, Mac OS, Linux, Visual Studio, Android SDK, Eclipse, Unity

Professional Experience

Google, Inc., Mountain View, CA — May 2018 – August 2018
Software Engineering Intern – Google Play Movies

- Developed a **C++** program with **MapReduce** to detect processing failures and deletions in movie store data.
  - Saved of hours of manual review by engineers per movie and TV data failure.
- Programmed in **C++** a daily-scheduled alert system to email written reports about the above detected anomalies.
- Created a dashboard to visualize patterns and anomalies found in queried data using **SQL**.

IBM, Littleton, MA — May 2017 – December 2017
Software Development Intern - Watson Visual Recognition

- Developed a **Java** program to add description tags for training new objects in the Watson Visual Recognition tagging service from large, untrained data of millions of images.
  - Over 99% accuracy rate of identifying correct images per new tag.
  - Filters out 99.5% of unrelated images from the training data.

Watson Visual Consultant
Face Detection and Recognition, Demographic Analytics https://goo.gl/UNHyva

- Programmed in **Java** to detect faces on camera in real-time using Watson Visual Recognition API.
- Identified demographic using Watson Face Detection API (age, gender, etc.) and updated database to store data.
- Created a dynamic website in **JavaScript** with updated statistics that recommends targeted ads in real-time.

Vision and Control Systems, Union, NJ
Controls Engineer — September 2015 – December 2015

- Developed visual inspection programs in **C#** with 99.9% accuracy to detect flaws in Twizzler packaging for the Hershey Company and in the labeling of pharmaceutical bottles.

Aresty Research Center, Rutgers University, NJ
Undergraduate Research Assistant — September 2014 – May 2015

- Programmed custom software in **C++ and Arduino** to control robotic music with a pulse rate monitor.

Select Projects

Semantic Font Recommendation, *Big Data Analytics and Text Mining Project,* https://goo.gl/LBzHdV — Spring 2017
A website that recommends what font type to use to accentuate the emotional context of the text.

- Programmed **JavaScript** code to take the processed data and change user's input to a new font.
- Processed two datasets (font-to-emotion and word-to-emotion) using **Scala** and Apache **Spark** to find patterns.
- k-means clustering to group similar emotions together (i.e. happy and joy).

The Clean Machine, *Rutgers Senior Capstone Design* — Spring 2015
A robot that scans the scene and detects trained objects. The machine traverses to the coordinate locations of the objects. Then a mechanical arm picks up the objects and places them in a designated location.

- Developed **Matlab** code required for 3D data acquisition and object reconstruction.

- Determined relative locations of real world objects in every new scene.