Tommi-Ann **Tsuruga**

SOFTWARE ENGINEER INTERN

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Education

Hunter College   *New York City, NY*

BA - COMPUTER SCIENCE | GPA: 3.5   *Expected Graduation 2020*

- Relevant Coursework:
  Computer Science: Software Analysis and Design I and II, III Computer Theory, Introduction to Unix Tools, Discrete Mathematics, Computer Architecture, Artificial Intelligence, Machine Learning, Computational Vision
  Mathematics: Calculus I, II, Matrix Algebra, Applied Statistics

State University of New York College at Geneseo   *Geneseo, NY*

BA - PHILOSOPHY   *Graduated Spring 2011*

Skills

Languages: C++, Java, Python, Perl, Lisp
Other skills: HTML, CSS, Git, Github, Shell Scripting, Unix, Flask, scikit-learn, Tensorflow, Keras

Experience

Hunter College   *New York, New York*

UNDERGRADUATE TEACHING ASSISTANT   *August. 2018 - PRESENT*

- Assists recitation and lecture sections for the introductory computer science course and the introductory and intermediate software analysis and algorithm design courses
- Tutor students for topics that include programming and problem solving using Python and C++, Unix commands, basic circuits, simple assembly language, as well as algorithms and object oriented programming

Professor Susan L. Epstein's Problem Solving and Machine Learning Laboratory   *New York, New York*

UNDERGRADUATE RESEARCH ASSISTANT   *February 2018 - PRESENT*

- Explore and analyze cutting edge artificial intelligence and machine learning research with both undergraduate and PhD students in weekly meetings
- Give presentations on AI/ML conference papers to provide lab members a better understanding of current developments in the fields of AI and ML.
- Assist PhD students in their research for publication

Projects

Cat Detector   *Python and C++*

SCHOOL PROJECT   *Fall 2018*

- Classified images from the Oxford-IIIT Pets Dataset using three different computer vision techniques: Haar Cascade classifier, Histogram of Oriented Gradients features with a linear SVM for classification, Resnet-101 with fast RCNN
- Used OpenCV, scikit-learn, pandas, matplotlib and Tensorflow across all the implementations to assess the accuracy of different classification methods

Pawfect Match – HackNY Fall18 Best First Hack Winner   *Python*

HACKATHON PROJECT   *Fall 2018*

- Using Keras with Tensorflow, analyzed images gathered from the Petfinder API to query a k-d tree to return the nearest-neighbors populated by mobilenet, a convolutional neural network that returns a 1024dimension feature vector for each dog image. The tree then returns dogs by unique id who have the highest similarity percentage to a user uploaded image of a dog.
- Utilized Flask with a bootstrapped web application for the front end.

Activities

Hunter Women in Computer Science   *Hunter College - New York, New York*

CO-FOUNDER   *2016 - PRESENT*

- Planned events in collaboration with tech industry professionals and CUNY programs to support women interested in CS or the tech industry with career development and strengthening technical skills.
- Managed a mailing list of over 300 women and allies to coordinate events