

Tommi-Ann Tsuruga

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Education

Hunter College – CUNY

Computer Science BA

GPA: 3.425

Expected Graduation Spring 2019

Relevant Coursework: Software Analysis & Design I, II, III Computer Theory, Operating Systems, Artificial Intelligence, Intro to Unix Tools, Discrete Mathematics, Computer Architecture, Calculus I & II, Matrix Algebra, Applied Statistics

SUNY Geneseo

Philosophy BA - Minor: Sociology

Spring 2011

Technical Skills

Programming Languages: C++, Java, Python, Perl, Lisp

Markup/Styling Languages and other skills: HTML, CSS, Git, Github, Shell Scripting, Unix, Flask,

Experience

Undergraduate Teaching Assistant

- Assist recitation and lecture sections for introductory to intermediate computer science courses
- Tutor students for topics that include programming and problem solving using Python and C++, Unix commands, basic circuits, and simple machine language

Undergraduate Research Assistant: Professor Susan L. Epstein's Problem Solving & Machine Learning Laboratory

- Exploring and analyzing cutting edge AI and machine learning research with undergraduate/PhD students in weekly meetings
- Present AI conference papers to provide lab members a better understanding of current developments in the fields of AI and ML.

Technical Projects

Academic/Classwork Projects

- Word-Puzzle Solver using custom Hashmap Implementations
 - Implemented three hash maps in C++ with different collision resolution techniques (separate chaining, quadratic probing, double hashing)
 - Implemented custom iterator class to traverse the maps

Hackathon Projects

- Pawfect Match – HackNY Fall18 Best First Hack Winner
 - 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

Co-Founder – Hunter Women in Computer Science

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.