HOLLY TANCREDI

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github.com/hollyt

Education
CUNY Brooklyn College, B.S. Computer Science, expected Winter 2015 - 3.6 GPA

Related Experience

Software Development Intern   01/15 - Present
Turing's Craft Inc, Brooklyn, NY
- Implemented reflection protocols in Python to dynamically check and give feedback on student code.
- Created utilities in Java and Python to help instructors create custom programming exercises for their classes.
- Developed and implemented programming exercises for Pearson's My Programming Lab software in Python, C++, and Java.

Research Assistant   09/14 - Present
Computational Molecular Biophysics Research Lab, Brooklyn College
- Created a Python library to easily add thermodynamic and energetic properties to DESRES Molecular System (.dms) files.
- Wrote software in Python and SQLite to compute the binding strength of protein complexes on distributed systems.
- Managed a BOINC-based computer grid for running thousands of molecular dynamics simulation threads.
- Recent work has been presented at the 2015 Sigma Xi Northeastern Conference and published in Protein Science.

DREU Research Fellow   05/14 - 08/14
ArticuLab, Carnegie Mellon University
- Implemented in C++ a machine learning Friendship Classifier module for an Embodied Conversational Agent Peer Tutor using a Support Vector Machine.
- Integrated the Classifier with existing modules using Apache ActiveMQ.
- Presented the research at the Pittsburgh Science of Learning Center Research Symposium.

Languages & Skills
Programming - Python, C++, Java, Bash Scripting, SQLite
Basic system administration of Linux servers

Publications
Daniele Di Marino, Ilda D'Annessa, Holly Tancredi, Claudia Bagni, and Emilio Gallicchio. "A unique binding mode of the eukaryotic translation initiation factor 4E for guiding the design of novel peptide inhibitors." *Protein Science* (2015).

Fellowships & Awards
2014 CRA-W Distributed Research Experiences for Undergraduates (DREU) Fellowship
2015 Recipient - Erik Widder Memorial Award in Computer Science
Member - Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines

Activities
First Place Winner - Lehman College NSBE Hackathon 11/15/14
C++ Tutor - Brooklyn College Department of Computer Science
Founder, Treasurer - Girl Geek Dinners @ Brooklyn College