WILLIAM GANTT

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SKILLS

Programming Languages	Java (Expert), Python (Competent), C++ (Familiar), C (Familiar) MySQL (Familiar)
Tools & Libraries	Git, Vim, Spring, Splunk, Numpy, LaTeX

EDUCATION

University of Rochester, M.S., Ph.D. Computer Science — Anticipated May 2024

· Relevant Coursework: *Statistical Speech and Language Processing, Computational Complexity, Data-Enabled Research into Human Behavior and its Cognitive Mechanisms*

Bowdoin College, B.A. Computer Science (honors), *cum laude*, Phi Beta Kappa, GPA: 3.88 — May 2017

· Thesis: *An Investigation of Genetics-Based Machine Learning as Applied to Global Crop Yields (https://github.com/wgantt/honors)*

· Relevant Coursework: *Robotics, Optimization and Uncertainty, Introduction to Systems, Computer Networks, GIS Algorithms & Data Structures, Databases, Algorithms, Data Structures, Introduction to Computer Science, Linear Algebra, Statistics, Probability, Mathematical Reasoning, Multivariate Calculus*

Online Coursework: *Machine Learning, Natural Language Processing with Deep Learning*

EXPERIENCE

Gildea Lab, University of Rochester — September 2019 - Present
Researcher — *Brunswick, ME*

· Working to improve neural machine translation using Abstract Meaning Representation (AMR) graphs. Advised by Dan Gildea.

Okta — July 2017 - July 2019
Software Engineer — *San Francisco, CA*

· Led development on Okta's brand-new authentication and authorization pipeline by overhauling the policy engine and HTTP callbacks framework (Java): (https://www.okta.com/okta-identity-engine/)

· Developed an out-of-the-box self-service registration platform for web applications (Java)

· Won two company-wide hackathons — first, for a feature to specify sensitivity levels of user attributes and filtering them from user profiles depending on administrative privileges; second, for a feature to mitigate SMS intercept and SIM hijacking attacks using phone porting, carrier, and geolocation data.

Congdon Lab, Bowdoin College — June 2016 - May 2017
Researcher — *Brunswick, ME*

· Designed and wrote a learning classifier system in C++ for analysis of global crop yield data. Results showed that choice of crop mix and changing temperatures have a significant impact on yields.

· Developed a genetic algorithm variant for inferring candidate transcription factor DNA binding sites.

HONORS & AWARDS

NSF Research Traineeship — University of Rochester, September 2019
Awarded to graduate students in high-priority STEM fields with an emphasis on developing research skills and promoting interdisciplinary projects.

Sproull Fellowship — University of Rochester, September 2019
The University of Rochester's most prestigious graduate fellowship, awarded to fewer than a dozen incoming PhD students on the basis of an outstanding academic record and unusual potential for graduate study.

Computer Science Senior-Year Prize — Bowdoin College, May 2017
Awarded to the student who has achieved the highest distinction in the major program in computer science.