Brandon Willett

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EDUCATION

University of Rochester, *Rochester NY* August 2014 - May 2018

- Candidate for B.S. in Computer Science, specializing in algorithms & complexity
- Candidate for B.A. in Mathematics, specializing in abstract algebra
- Taken several graduate-level courses, such as:
  - CSC 284 – Advanced Algorithms
  - CSC 286 – Computational Complexity
  - MTH 436 – Group and Ring Theory
  - MTH 437 – Galois Theory
- Current Major GPA is 3.82 (Computer Science) and is 3.80 (Mathematics), achieved Dean's List each semester

SOFTWARE DEVELOPMENT EXPERIENCE

Computational Statistics Research Assistant September 2016 - Present
University of Rochester Chemical Engineering Department *Rochester, NY*

- Created and improved an algorithm which implements a Markov chain based statistic analysis on a set of random variables given by time series data, along with a friendly web interface for visualizing its results
- Implemented the backend using Python with NumPy and Pandas, and the frontend using JavaScript with jQuery

Software Development Intern June 2017 - August 2017
Edu Chat Inc. *New York, NY*

- Developed an adaptive chat bot, backed up by a machine learning model, to classify / answer student questions
- Worked closely with a team of three other engineers, using JIRA and Git extensively in collaboration, to refine, test and integrate the new NLP question-matching model with the greater Edu.Chat platform in time for launch

LEADERSHIP EXPERIENCE

Teaching Assistant January 2016 - Present
University of Rochester Department of Computer Science *Rochester, NY*

- Led weekly workshops, graded tests / homework, and helped students through core and upper-level classes
- Relevant courses include CSC 254 Programming Language Design and CSC 282 Analysis of Efficient Algorithms

Technician Supervisor September 2014 - Present
University of Rochester Event and Classroom Management *Rochester, NY*

- Trained, managed, and communicated with the large (80+) student staff since September 2016, in addition to:
- Organized small teams which ran AV technology for events across campus, including concerts and ceremonies, and also provided systems and software support for students & faculty at the University

SKILLS AND QUALIFICATIONS

Personal Projects

- Learned Scala independently, and used it to create an annealing model for determining optimal traffic light timing
- Founded a weekly study group which connected first-year CS students to work together on course projects
- Implemented a random-forest machine learning classifier in "Colors", which then suggests amiable color pairings

Programming

- Languages: Proficient with C, Java, Python, and JavaScript; and experience with C++, Scala, Swift, and SQL
- Non-Languages: Experience with Agile development, Git source control, BASH terminal, and unit testing