

Alexander Hamme



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alexander-hamme



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OBJECTIVE To apply my background in computer programming to real-world, cutting edge research in a challenging and dynamic software internship.

EDUCATION **Bard College**, Annandale-on-Hudson, New York Graduating May 2019
Bachelor's Degree in Computer Science GPA 3.87 / 4.0

COURSES

- Data Structures
- Object-Oriented Prog.
- Intro to Neurobiology
- Algorithms
- Design of Prog. Langs.
- Biotechnology and
- Artificial Intelligence
- Robotics Research
- Infectious Diseases

PROJECTS

Computer Vision Tracking Program

Developing a program with OpenCV, Python, and C++ that tracks and records data of *Xenopus laevis* tadpoles. This project is in collaboration with neuroscience researchers at Bard College.

Scientific Articles Web-Scraping Script

Designed a web crawler that collects data about thousands of science articles, using Requests, Urllib2, and Selenium modules. Program visualizes article statistics and outputs HTML document.

Twitter Bot Detector

Created Java project to parse 250,000 tweets from across US using Twitter API. Implemented hashmaps and red-black trees, developed algorithms to calculate probability of each user's account being a twitter bot. Program found 100 of the most likely twitter bots in the US.

EXPERIENCE

Bard College **Software Intern / Workshop Leader** **Jun 2017 – Sep 2017**

Designed an [interactive game](#) that taught incoming Bard College freshmen how to integrate computer coding into their own writing. Used Twine software, JavaScript, and HTML/CSS. Organized and led follow-up coding workshops that introduced beginning CS concepts.

Bard College **Coding Tutor** **Feb 2017 – May 2017**

Tutored programming students in Object-Oriented Programming with Robots course.

Fairleigh Dickinson University **Audiotech Intern** **Sep 2014 – Jun 2015**

Worked at FDU Radio Station with professional audio software, equipment, and sound boards

SKILLS

Proficient	Python, Java, JavaScript, HTML/CSS, Scheme, Linux Bash/Shell
Familiar	Haskell, Prolog, C#, C++, SQL, RStudio, Matlab, Machine Learning, Git
Other:	Classical pianist (Music double major), dabbler in sound engineering.