

# Gregory Murray

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Bachelor of Science in Computer Science*

*Minor: Mathematics*

May 2018

GPA: 3.7/4.0

### University of Pisa (Summer 2016 Term I)

Pisa, Italy

- Adapted to an unfamiliar environment and embraced cultural differences while studying engineering in Italy.

## WORK EXPERIENCE

### Echelon Consulting

*Software Engineer Intern*

Chicago, IL

June-August 2017

- Currently interning at Echelon Consulting this summer.

### Pivotal Labs

*Software Engineer Intern*

Chicago, IL

July-August 2016

- Created a web application for Allstate's multi-line quoting business using react, redux, and node in JavaScript.
- Pair programmed with Pivotal employees and clients using test-driven development to deliver clean and reusable code.
- Evaluated and ranked complexity for code stories while working under an agile scrum development cycle.

### Citadel LLC

*Citadel Technology Intern*

Chicago, IL

June-August 2015

- Built a custom stress-testing script for Citadel Technology's trading application to meet clients' requests and needs.
- Collaborated with the support and implementation team to automate software checks for Citadel's lab environments.
- Kept track of various metrics for simulated trade orders and visualized them for the development and sales team.

## PROJECT EXPERIENCE

### Handwritten Image Classifier

April 2017

- Programmed a multi-layer perceptron to classify handwritten digits for my artificial intelligence class.
- Learned a deep understanding of neural networks and machine learning classifiers.
- Achieved a 92% accuracy rate on testing data for over 5,000 different handwritten images.

### Fantasy Sports Script

October 2016

- Coded a multi-threaded, python web scraper to get the projected fantasy points for each player among multiple websites.
- Implemented a genetic algorithm to generate an optimal fantasy sports lineup for each week.
- Customized the script to allow for optional arguments to tweak the projected points based on the user's discretion.

## TECHNICAL SKILLS

**Languages:** Java, Python, HTML/CSS, JavaScript, SQL, C++, C

**Classes:** Data Structures (CS 225), Systems Programming (CS 241), Numerical Methods (CS 357), Algorithms and Models (CS 374), Database Systems (CS 411), Data Mining (CS 412), Artificial Intelligence (CS 440), User Interface Design (CS 465)

**Frameworks:** Django, Java Spring, Java Hibernate, React.js, Redux.js, Dojo.js

**Applications:** GitHub, Subversion, Linux, IntelliJ, PyCharm, Eclipse, Oracle SQL Developer, MS Office Suite

## PROFESSIONAL DEVELOPMENT

### Internal Research and Investment Services (IRIS)

September 2014-Present

*Internal Portfolio Manager and Senior Technology Analyst*

- Co-founding member of an internal investment club, which looks to teach members about the financial markets.
- Manage a team of 4 analysts that look to collaborate and pick promising stocks in the technology industry.
- Created a club account with TD Ameritrade, and am the overseer on every transaction.

### Tau Beta Pi Engineering Honor Society

September 2015-Present

*Member*

- Invited to be a member of an honor society that accepts the top 1/8 of the junior class in the College of Engineering.
- Mentored underclassmen that were interested in pursuing a degree in Computer Science.