

# 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

- Integrated SOLR search into a Java Spring web application to search through hundreds of thousands of cases in seconds.
- Programmed multiple RESTful API endpoints for an existing management software to safely access and create cases.
- Optimized and restructured Oracle SQL tables, views, and procedures to improve access speed by up to ~200%.

### Pivotal Labs

*Software Engineer Intern*

Chicago, IL

July-August 2016

- Worked on 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

*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

### Raspberry Pi TV Alarm

Spring 2017

- Created an application that would turn on my TV every morning and display my schedule for the day.
- Integrated my google calendar, weather information, news articles, and a text to speech prompt using APIs I found online.
- Configured my program to run daily on my raspberry pi computer using crontab.

### 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, Cloud Foundry, 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.
- Managed a team of 4 analysts that look to collaborate and pick promising stocks in the technology industry.

### Tau Beta Pi Engineering Honor Society

September 2015-Present

*Active Member*

- Mentored underclassmen and let students shadow me to see if they are interested in pursuing a degree in Computer Science.