

## EDUCATION

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**Drexel University**  
*Bachelor of Science in Computer Science*

Philadelphia, PA  
*September 2015 – June 2019 (expected)*

## EXPERIENCE

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**Bloomberg**  
*Data Engineer for Fixed Income products*

Princeton, NJ  
*April 2018 - Present*

**Web Scraping:** Developing and maintaining web crawlers for automated data acquisition. Performed quality control on vendor web crawlers to ensure return on investment.

**Jira Workflow Development:** Developing and maintaining customized workflows for accountability and business intelligence. Consulting with internal users for requirement gathering.

**Exploratory Data Analysis:** Researching historical workitem data to develop forecasting models. By predicting workload, teams can scale or reduce vendor spending.

**Microservice and Data Pipeline Development:** Designed and developed a microservice to consolidate analyst tasks. Maintaining event processing components to add features, reduce server load, fix bugs, or add reusability.

**Assisting with Training:** Leading training sessions for Jira development. Helped onboard 3 full time data engineers.

**Team Building:** Organizing department chess tournaments. Trivia captain for weekly competitions.

**Booksmart**  
*Backend Developer*

Philadelphia, PA  
*July 2016 - September 2017*

**Webserver Development:** Python backend for a web and mobile application used by tour owners and musicians.

**Specification Writing:** Designed new feature implementations, considering scalability and maintainability. Worked with management and user interface teams to meet requirements.

**Chess.com**  
*Contract Developer*

Remote  
*March 2017 - May 2017*

**Full Stack Feature Development:** Developed new features for millions of users.

**Testing and Maintenance:** Discovered production bugs and implemented hotfixes.

**Drexel Hyperloop**  
*Control Systems Software Engineer*

Philadelphia, PA  
*July 2016 - October 2016*

**Sensor Data Logging:** Implemented a database for live data streaming. Data sources from various engineering systems were monitored for irregularities and performance.

**Requirements Coordination:** Determined software needs of multiple teams, totaling over one hundred personnel.

**Thomson Reuters, IP & Science**  
*Data Analyst*

Philadelphia, PA  
*March 2016 - September 2016*

**Big Data:** Queried a Hadoop cluster to extract bibliometric data for customers.

**Web Scraping:** Started data population for new features and data models.

**Armada International Advisors**  
*Full Stack Developer*

Philadelphia, PA  
*October 2014 - October 2015*

**App Development:** Developed and maintained web and mobile apps. Developed equipment tracking app.

**Web Scraping for Sales Leads:** Collected contact data for sales leads using web crawlers and social media scraping.

## PROJECTS

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**One-way Anonymous Messaging App:** Native Android app to send and receive messages from strangers.

**Custom Garbage Collector:** Mark and sweep memory allocation example in Objective-C.

**Custom Graphics Engine:** Features include VBO rendering, first person movement, and basic collision detection.

## PROGRAMMING SKILLS

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**Languages:** Python, Javascript, Groovy, C++, Java, Objective-C, C#, Go, Lua, Haskell, Prolog, VB

**Technologies:** Django, MySQL, Express, HiveQL, MS SQL, Spring, MongoDB, Symfony, Bloomberg Terminal

## ACTIVITIES

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**Hackathons:** Philly Codefest, Bitcamp, Numenta NuPic, Hackster.IO Hardware Weekend, PSU Hacks

**Chess:** Drexel Chess Club President, USCF Member