

## EDUCATION

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- **Drexel University** Philadelphia, PA  
*Bachelor of Science in Computer Science; Secondary major in Mathematics* September 2015 – June 2019

## EXPERIENCE

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- **Booksmart** Philadelphia, PA  
*Backend Developer* July 2016 - Present
  - **Webserver Development:** Python backend for a web and mobile application used by tour owners and musicians. Servicing over one hundred daily users
  - **Specification Writing:** Designed new feature implementations, considering scalability and maintainability; worked with management and user interface teams
  - **Data Management:** Migrated data safely to new models, preserving data integrity and backwards compatibility when available
- **Thomson Reuters, IP & Science** Philadelphia, PA  
*Data Analyst* March 2016 - September 2016
  - **Big Data:** Queried a Hadoop cluster to extract bibliometric data for customers. Optimized queries to deliver results timely and cheap.
  - **Data Cleaning:** Parsed files into a desired format. Added custom analytic fields.
  - **Web Scraping:** Started data population for new features, data models
- **Chess.com** Remote  
*Contract Developer* March 2016 - May 2016
  - **Full Stack Feature Development:** Developed and integrated a new feature for millions of users.
  - **Testing and Hotfixes:** Found production bugs and developed work arounds for paying users.
- **Drexel Hyperloop** Philadelphia, PA  
*Control Systems Software Engineer* 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, totalling over one hundred personnel
- **Armada International Advisors** Philadelphia, PA  
*Full Stack Developer* October 2014 - October 2015
  - **IoT Project Development:** Independently developed an equipment tracking application using Texas Instruments' sensors
  - **Web and Mobile App Development:** Developed and maintained multiple web and mobile apps
  - **Web Scraping for Sales Leads:** Collected contact information from potential clients using web crawlers and social media scraping

## PROJECTS

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- **One-way Anonymous Messaging App:** Open source python library for financial data analysis and for finance.
- **Custom Garbage Collector:** Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Command Line Chess Server:** Book that gives step by step instructions on setting up environment on Mac OS.
- **Custom Graphics Engine:** Music and Movie recommender systems using collaborative on public datasets.

## PROGRAMMING SKILLS

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- **Languages:** Python, Javascript, C++, Java, C, C#, Go, Haskell, Prolog, VB
- **Technologies:** AWS, Play, React, Kafka, GCE

## ACTIVITIES

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- **Hackathons:** Philly Codefest, Bitcamp, Numenta NuPic, Hackster.IO Hardware Weekend, PSU Hacks
- **Chess:** Drexel Chess Club President, USCF Member