Nathaniel Schultz

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EDUCATION

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

EXPERIENCE

- **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 maitainability; 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 Analyist — *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 personel

- **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

- **One-way Anonymous Messaging App**: Mobile app to send and recieve messages from stragers.
- **Custom Garbage Collector**: Minimal memory allocation example in objective C.
- **Command Line Chess Server**: Real time chess as a simple networking example.
- **Custom Graphics Engine**: Features include VBO rendering, first person movement, and basic collision detection

PROGRAMMING SKILLS

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

ACTIVITES

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