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
- Specification Writing: Designed new feature implementations, considering scalability and maintainability. Working with management and user interface teams to meet requirements.
- Data Management: Migrating data safely to new models, preserving data integrity and backwards compatibility whenever possible.

Chess.com Remote

Contract Developer

March 2017 - May 2017

- Full Stack Feature Development: Developed and integrated new features for a website with 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

- o 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

Philadelphia, PA

Data Analyist

March 2016 - September 2016

- o Big Data: Queried a Hadoop cluster to extract bibliometric data for customers. Optimized queries to deliver results timely and inexpensively.
- o Data Cleaning: Parsed files into a desired format. Added custom analytic fields.
- Web Scraping: Started data population for new features and data models.

Armada International Advisors

Philadelphia, PA

Full Stack Developer

October 2014 - October 2015

- o IoT Project Development: Independently developed a medical 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: Native Android app to send and receive messages from strangers.
- Custom Garbage Collector: Mark and sweep 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, Objective-C, C#, Go, Haskell, Prolog, VB
- Technologies: Django, MySQL, Express, HiveQL, MS SQL, Spring, MongoDB, Symfony

ACTIVITES

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