

Nathaniel Schultz

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EDUCATION

Drexel University

Bachelor of Science in Computer Science; Secondary major in Mathematics

Philadelphia, PA
September 2015 – June 2019 (expected)

EXPERIENCE

Bloomberg

Global Data Technical Operations Intern

Princeton, NJ
April 2018 - September 2018

Task Title: Task Description

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.

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

Contract Developer

Remote
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

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. Optimized queries to deliver results timely and inexpensively.

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

Full Stack Developer

Philadelphia, PA
October 2014 - October 2015

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

ACTIVITIES

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

Chess: Drexel Chess Club President, USCF Member