

Nathaniel Schultz

<http://thenateschultz.com/>

nate.schultz@outlook.com

(978) 201-2997

EDUCATION

Drexel University

Bachelor of Science in Computer Science

'Numeric & Symbolic Computation' and 'Artificial Intelligence' concentrations

Philadelphia, PA

September 2015 – June 2019 (expected)

EXPERIENCE

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.

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

IoT Project Development: Developed a medical equipment tracking application using TI sensors.

Web and Mobile App Development: Developed and maintained multiple web and mobile apps.

Web Scraping for Sales Leads: Collected contact data for sales leads 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.

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

PROGRAMMING SKILLS

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

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

Chess: Drexel Chess Club President, USCF Member