Nathaniel Schultz

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(978) 201-2997

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 100 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**: Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
  - **Data Cleaning**: Python backend for a web application used by hedge fund managers for portfolio management.
  - **Web Scraping**: Python backend for a web application used by hedge fund managers for portfolio management.

- **Chess.com** — Remote
  Contract Developer — *March 2016 - May 2016*
  - **Full Stack Feature Development**: Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
  - **Testing**: Python backend for a web application used by hedge fund managers for portfolio management.

- **Drexel Hyperloop** — Philadelphia, PA
  Control Systems Software Engineer — *July 2016 - October 2016*
  - **sdsdsds**: Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
  - **QuantDesk**: Python backend for a web application used by hedge fund managers for portfolio management.

- **Armada International Advisors** — Philadelphia, PA
  Full Stack Developer — *October 2014 - October 2015*
  - **IoT Project Development**: Research on machine learning for portfolio hedging and replication algorithms. Modeling low-risk & continuous-return strategies. Developed the python library QSTK.
  - **Web and Mobile App Development**: The online course on Coursera, had more than 100,000 students enrolled. It was featured on the 11 Alive News and the Atlanta Journal Constitution. Involved in creating assignment, exams and conducting recitation sessions. Also taught the on-campus version of the course.
  - **Web Scraping for Sales Leads**: The online course on Coursera, had more than 100,000 students enrolled. It was featured on the 11 Alive News and the Atlanta Journal Constitution. Involved in creating assignment, exams and conducting recitation sessions. Also taught the on-campus version of the course.

PROJECTS

- **QuantSoftware Toolkit**: Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization**: Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System**: Music and Movie recommender systems using collaborative filtering on public datasets.
- **Mac Setup**: Book that gives step by step instructions on setting up developer environment on Mac OS.

PROGRAMMING SKILLS

- **Languages**: Scala, Python, Javascript, C++, SQL, Java   **Technologies**: AWS, Play, React, Kafka, GCE

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