Nathaniel Schultz

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Experience

Bloomberg LP   PRINCETON, NJ & PHILADELPHIA, PA (REMOTE)

Acquisition Tech Lead   *Dec '19 – Present*

As one of the initial members of this team, I gained ownership of implementing the team's technical projects. Our team is responsible for maintaining hundreds of thousands of web crawlers and increasing our coverage with new crawlers. I build platforms to add transparency and improve reporting for Bloomberg's acquisition processes. My project portfolio includes:

- A validation workflow with over 70 logic checks to ensure web crawlers are configured properly
- A full stack website to parse web crawler configurations for easier reporting
- A metadata triple store to link various acquisition databases together

I also manage our co-op program, which is an important part of our hiring pipeline. I'm responsible for organizing our co-op hiring, on-boarding, and events. We have 4 co-ops that rotate biannually, across 4 different teams within the department.

Data Engineer   *Jun '19 – Dec '19*

In this role I contributed to several projects, managed our team's web crawler queue and oversaw our team's co-op. I worked on various microservices and a script to migrate and consolidate data from 3 legacy databases. I lead a project with three co-ops during this period to migrate the manual Jira access queue into our internal permission system.

Data Engineer Co-Op   *Apr '18 – Sept '18*

As the only co-op at the firm during this period, I was able to gain expertise in each tech stack component. My contributions during this period include web crawler configurations, microservice development, Jira workflow configuration, and productivity data EDA. I enjoyed hosting office activities like chess tournaments and weekly trivia.

Please refer to my Linkedin profile for the complete list of work experiences along with recommendations.

Education

Drexel University   PHILADELPHIA, PA

Bachelor of Science in Computer Science   *Sep '15 – Jun '19*

Focused on computational mathematics and artificial intelligence / machine learning. During this time I was employed at startups, participated in hackathons, and held membership in industry specific clubs. I've curated a diverse portfolio of programming projects including IoT, full stack mobile and web apps (*hybrid and native*), data analysis, graphics, and web crawlers.

Skills

Leadership: Establishing relationships with engineering groups, business stakeholders, and peers. Solid communication and presentation skillset. Intern management and hiring experience. Skilled in vendor management and productivity data analysis.

Technical: Software design, workflow design, and data pipeline design. I work regularly with Python, Javascript, and Lua. Solid knowledge of web technologies and best practices relating to web crawling. Recent web development experience with React-Redux, Flask, SQL Alchemy, and PostgreSQL. CI experience with Docker and Docker-Compose. Data analysis experience in Python using Jupyter, Pandas, and Matplotlib.

Mathematics: Applied optimization theory to solve industrial design problems. Studied abstract algebra, analysis, statistics, and nonlinear algebra (*among other topics*).

Interests

Non-exhaustive and in alphabetical order: Buddhism, chess, defi, mathematics, open source, philosophy, reading, Rubik's cubes, software engineering, vegetarian cooking, volunteering, woodcarving and yoga.