

# NATHANIEL MAY

Engineering Manager · Philadelphia, PA

## Experience

---

### **dbtLabs**

Feb '21 – Present

#### *Senior Software Engineer*

- Lead large technical initiatives such as adding a new static parser with tree-sitter and Rust, adding a new module for structured logging, and performance regression testing.
- Mentor junior engineers both in career development and acquiring new technical skills.
- Initiate and continually organize monthly lightning talks for the engineering department.
- Interview new candidates and evaluate their technical level and fit for the company.

### **Fauna**

Jan '19 – Dec '20

#### *Engineering Manager*

- Lead the Queries and Drivers team with four direct reports.
- Improved engineering operations by pioneering live team tracking dashboards in Jira, introducing effective asynchronous team standups, conducting an engineering-wide consolidation of synchronous meetings, standardizing code review practices, and starting release-based retrospectives across all four engineering teams.
- Created an atmosphere of trust and honesty where engineers grow rapidly and ask to take on more responsibility.
- Exercised project management across open source drivers in JavaScript, Python, Java, Scala, Go, and C#; a GraphQL extension; and core database modules including the query language, authentication and authorization, and indexing.
- Documented production incidents by investigating and presenting written reports outlining relevant action items to prevent future incidents.
- Planned product roadmaps in cooperation with the executive team.
- Collaborated with HR to design and implement a new engineering onboarding experience.
- Executed product goals, enabled client support, and coordinated dependencies.

#### *Senior Software Engineer*

- Improved the Fauna Query Language in Scala with new functions and runtime semantics.
- Designed and implemented cloud-safe query versioning to keep existing applications safe from semantic changes included in future database versions.
- Wrote and modified distributed systems tests in Scala for the core database.
- Improved error reporting and index build times from minutes to seconds.

## **iRobot**

Sept '18 – Jan '19

### *Software Engineer*

- Developed a Scala library for creating AWS lambda-based microservices, which sped up development time for creating new serverless microservices and pipelines.
- Built a fast, serverless Scala pipeline to replace the existing Python infrastructure and significantly reduce operating costs.

## **MongoDB**

Aug '15 – Mar '18

### *Consulting Engineer*

- Improved client operations at more than 50 companies by advising technical leads on solutions and best practices for data resiliency, optimization, and scalability.
- Communicated the business impact of technical changes with client executive teams.
- Documented solutions and official recommendations by writing and delivering detailed technical reports to every customer.
- Trained developers and database administrators by delivering week-long basic and advanced instructional courses.
- Responded to production software incidents onsite with customers.
- Addressed client concerns with remote and in-person consulting to debug code, review deployment architectures, assess system health, and plan engineering roadmaps.
- Created code for production, testing, and developer education.

## **Red Hat**

Sep '13 – Aug '15

### *Consulting Engineer*

- Advised clients on new engineering strategies and alternate scalability solutions.
- Developed new product features and fixed bugs for clients in Java and JavaScript.
- Analyzed, improved, and optimized the performance of production code.
- Contributed new features to development tools, and trained new client developers.
- Documented service functionality for government archives.

## **Skills**

---

Team Building · Project Management · Client Relations · Jira · Technical Documentation  
· Databases · Distributed Systems · Programming Language Design · FP

## **Languages**

---

Rust · Haskell · Scala · PureScript · Python · Javascript · Java

## **Education**

---

### **University of Massachusetts Amherst**

2013

*B.S. Computer Science, Mathematics*