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# NICHOLAS SEIDL

## Software Engineer - Backend and Middle-Tier

I have professional experience in industry developing backend and middle-tier software in small agile teams. I helped engineer a modular Blockchain platform leveraging Elasticsearch during this past summer. I'm currently looking for a 6 month long co-op from January through June.

### Contact

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<http://nseidl.io>



[github.com/nseidl](https://github.com/nseidl)



[/in/nicholaskseidl](https://in/nicholaskseidl)

### Languages

Java, Python, Bash, C++,  
ACL2s (Lisp), SQL, DSL

### Software

Unix, Elasticsearch,  
Docker, Openshift,  
MySQL, git, Stash/Jira,  
Codehub/Rally, Jenkins  
(continuous integration),  
AWS

### Concepts

Object and Class Oriented  
Programming, Blockchain,  
Big Data (and database  
design), Algorithms

### Courses

Algorithms and Data,  
Object Oriented Design,  
Computer Systems,  
Discrete Structures, Logic  
and Computation,  
Fundamentals of CS I & II,  
Linear Algebra, Probability  
and Statistics

### Experience

#### UnitedHealth Group - Optum Technology

Boston, MA

##### Backend Developer

Summer 2017

- Engineered pluggable Blockchain platform; adapted to bank transaction reconciliation and facilitation (big data)
- Designed, implemented, optimized backend and middle-tier pipeline (Python, Bash): MySQL → .csv → JSON → Elasticsearch → Blockchain → Hash Enforcer
- Leveraged Docker and Openshift for rapid deployment of system infrastructure
- Scrum Master in Agile team of 8: 1 week sprints, 1 week iterations
- Created Shark Tank presentations bi-weekly: demo, business case analysis
- Presented to various high level employees: Directors, Presidents, CIO, CTO, COO

#### Northeastern University Information Technology Services

Boston, MA

##### ITS Technician

2016-2017

- Aid students and faculty in troubleshooting of various technology problems (faulty hardware, buggy printer and proprietary software); general OS helpdesk

#### Quanergy Systems

Sunnyvale, CA

##### R&D Software Engineer / DevOps

Summer 2016

- Developed on Agile team of 10: optimized custom barebones Linux file system for mass deployment on small embedded systems (LiDARs) to work properly with Quanergy Software (C++)
- Created and tested scripts to streamline testing and preliminary deployment procedures (Bash, Python)
- Improved raw data logging feature for LiDARS using Quanergy software; implemented naming and data logging conventions (XML, JSON)
- Worked on continuous integration for software team (Jenkins, AWS, Stash, git)

#### Systems and IT Administrator

Summer 2015

- Configured, tested, optimized LDAP integration with Atlassian and Google software suite, Zabbix, Dell Synology (Confluence, Jira)
- Installed Zabbix monitoring tool onto all company machines (Linux/Mac/Windows) along with SNMP reporting
- Troubleshooted proprietary software through command line on Unix/Windows

### Education

#### Northeastern University

Boston, MA

##### Candidate for Bachelors of Science in Computer Science

2015-2019

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