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 am strongly interested in big data, machine learning, and networking and security. I'm currently looking for a 6 month long Co-op from January through July.

Contact

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http://nseidl.io

github.com/nseidl

/in/nicholaskseidl

Languages

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

Software

Linux, 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
Lead Backend Developer   Summer 2017
- Engineered pluggable Blockchain platform; adapted to bank transaction reconciliation and facilitation (big data)
- Designed, implemented, optimized baked 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
- Create Shark Tank presentations bi-weekly: demo, business case analysis

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)
- Fulfill general helpdesk tasks: Windows/Linux/Mac OS problems

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)
- Networked IP cameras, LiDARs, INS together to create robust test infrastructure
- 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
Bachelors of Science in Computer Science   2015-2019