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 July.

Contact

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http://nseidl.io

github.com/nseidl

/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

Bachelors of Science in Computer Science 2015-2019