NICHOLAS DOTY

Software Engineer

- REDACTED
- https://nicholasdoty.com/
- @ REDACTED
- Washington, DC

SUMMARY

Electrical Engineering graduate with a focus in Bioinformatics and software. Seeking a challenging position with the opportunity to use and further develop my skills in software design, big data management, mathematics and engineering/development mentoring.

EXPERIENCE

Software Engineer - Tech Education Data

US News and World Report

📅 10/2017 - Ongoing   📍 Washington, DC

Media - news, consumer advice, rankings, analysis

- Developed in-house tool for updating tens of thousands of school contacts using React/Redux, reducing team involvement by 90%
- Worked on ETL pipelines for 4 different education products
- Lead engineer of Best Online Programs, Community Colleges
- Assist in architecting future of data management for Education dept
- Agile Kanban framework, daily scrum, weekly backlog grooming

Software Engineer - Data Analytics

Royce Geospatial Consultants

📅 01/2017 - 10/2017   📍 Springfield, VA

Government Contractor - National Geospatial-Intelligence Agency (NGA)

- Performed consulting services to NGA to build and support big data analytical pipeline managing 100+ million data points
- Performed deep-dive on NGA software to maintain and develop new features
- Built Bayesian network analytic and integrated component into existing software for evidence based-analysis
- Assisted in architecting pipeline for communication of different parts of network probability model
- Mentored junior developers in core programming concepts and tools
- Scaled Agile Framework (SAFe), 2 month program increments, bi-weekly sprints/backlog grooming/retrospectives, daily scrum

EDUCATION

Electrical Engineering

University of Nebraska -Lincoln

📅 08/2009 - 05/2014   📍 Lincoln, NE

SKILLS

Front End

React   Redux   Javascript   HTML

CSS

Back End

Python   Java   Scala   Oracle

Postgres

DevOps

Git   Jenkins   AWS   Spark

Docker   Github   Artifactory

Other

Agile   Scrum   sAFE   Kanban

CI/CD

ACHIEVEMENTS

2020 Best Online Products Launch
Successfully loaded and modified school data for the USNews 2020 BOP launch

EXPERIENCE

Software Engineer

Caerus Associates

📅 10/2015 - 01/2017   📍 Arlington, VA

Government Contractor - Defense Advanced Research Projects Agency (DARPA)

- Worked alongside data scientists to develop analytics to determine anomalies in network (IP) traffic
- Analytics involved machine-learning techniques including k-means clustering, k-nearest neighbor, z-score calculations
- Transforming analytics written in Python/R to Java/Scala running in Apache Spark/Hadoop, designed for analyzing big data sets (100bn+ rows, GB to PB range)
- Agile Kanban framework, weekly status meetings with client

Software Engineer

Northrop Grumman

📅 09/2014 - 10/2015   📍 Offutt AFB, NE

Government Contractor - 557th Weather Wing, United States Air Force (USAF)

- On-site lead for team of 5 software developers
- Development work focused on weather tool used to track flight patterns/METARs/TAFs for all branches of the armed forces
- Completed bug-fixes and developed new features in weather tool using ActionScript, Robotlegs
- Lead engineer for space weather product development - from raw data ingest to visual display
- Agile Scrum framework, bi-weekly A/B sprint plan with monthly demos to client - bi-weekly backlog grooming/retrospectives, daily scrum

Web Application Engineer

Firespring

📅 11/2013 - 09/2014   📍 Lincoln, NE

Worked as an intern during the school year, then briefly full-time after graduating.

- Work involved making small changes to their API (built in Ruby), including a new rewrite, as well as updates to the user facing systems using HTML, CSS and JS.

ACHIEVEMENTS

🚀 **USAF Space Weather Products**
Added new space weather data visualizations for the USAF and USSTRATCOM, including NIPR and SIPR

REFERENCES

Mike Barlow
REDACTED

Ryan Cook
REDACTED

John Chen
REDACTED

FIND ME ONLINE

Linkedin
in/nldoty

Github
nldoty

Instagram
nldoty

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@nldoty