danielhenneberger

software engineer

contact

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languages

Java, JavaScript

interests

professional:
data analytics
data engineering
cassandra
software engineering

personal:
hackathons
beer brewing
molecular biology
number theory

experience

2015–2018 Principal Software Engineer - Addthis (**ORACLE** Data Cloud) Tysons Corner, Virginia

Full stack software engineer for the analytics and data science teams. Developed a high volume, scalable big data analytic platform to gather insights from offline data sources and the internet traffic of over 15M domains, with over 9 petabytes of data per month. Innovated new methods of delivering insights by leveraging new databases, developing new data pipelines, and implementing emerging algorithms. Developed and brought to production several natural language processing algorithms trained from open datasets, scraped web pages, and crowd sourced data to help reduce ambiguation, increase data expressiveness, and provide highly actionable insights. Managed the technical development of an analytics platform, a high dimensional clustering system, a NLP driven search system, and several one-off projects. Extended the Hydra distributed database and query engine to be more awesome. 4-time hackathon winner for nlp enhanced search, data visualization, microservice interaction tracing, and in-memory analytics.
technologies: java (dropwizard); databases (hydra, cassandra, elasticsearch); data science (clustering, nlp, k-means, collaborative filtering, t-sne); infrastructure (hydra, spark, open tracing, kubernetes, docker, metrics, rabbitmq, kafka); javascript (react, flux)

2014–2015 Software Engineer - Mesoscale Discovery   Gaithersburg, Maryland

Developed cloud-based laboratory management software, implemented data-driven procedures for automated reagent dispensing systems, and codified validated protocols for micro-plate test kits used in the biodefense, clinical, and life-science markets. Developed highly tested and documented software consistent with FDA regulated software systems.
technologies: java, rabbitmq, sql, aws (s3), xml, osgi

2011–2013 Graduate Assistant - Frostburg State University   Frostburg, Maryland

Assisted in teaching and held labs for the computer science department. Lectured, developed course material, and mentored students. Held consistent office hours and assisted the department with other duties. Led students in computer related extracurricular activities, including: computer security competitions, recruitment efforts, and other software projects.

2010–2011 Applications Engineer - Micropact   Herndon, Virginia

Developed flagship java business process management software for Department of Justice and the Internal Revenue Service in a proprietary java j2ee framework. Independently worked on-site and interfaced directly with clients. Held security clearances for DOJ & IRS.

2008–2010 Web Developer - Concept C Marketing & Design   Frederick, Maryland

Developed, deployed, and maintained responsive websites using early web technologies such as php, bootstrap, jquery, and foundation.

education

Masters of Science: Computer Science   Frostburg State University, Maryland
Master's Thesis: Affine Convolutions for Font Classification
This thesis explored classifying font types using affine invariant convolutions.
Contributed to open source projects.
  - 4.0/4.0 GPA
  - Department Honors for academic excellence

Bachelor of Science: Computer Science   Frostburg State University, Maryland