

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–Now **Principal Software Engineer, Applied Data Science** - Addthis (**ORACLE** Data Cloud) Tysons Corner, Virginia

Software engineer & researcher for the data science team. Built foundational architectures, tools, and data pipelines for other teams. Developed and brought to production several natural language processing proof of concepts trained from open datasets, scraped web pages, and crowd sourced data. Created a robust testing and evaluation suite for machine learning pipelines to increase developer confidence and productivity. Developed similarity models and NLP enhanced search tools for various Oracle Data Cloud products. Extended the Hydra distributed database and query engine to be more awesome.

Developed a high volume, scalable big data analytic platform to gather insights from 15M domains and over 9 petabytes/mo of data. Built highly available and scalable REST web services in a containerized microservice environment. Built and managed at-scale big data processing and query engine that incorporated machine learning, probabilistic, and statistical algorithms. Managed and improved an at-scale high-dimensionality clustering system. 4-time hackathon winner for enhanced search, data visualization, microservice interaction tracing, and in-memory big data analytics. Regularly interfaced with engineering teams around the world and coordinated engineering work for the broader Oracle Data Cloud. Assisted in converting a waterfall team to an agile team.

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 the flagship 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.

technologies: java, sql, javascript, jquery, itext, spring

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