

danielhenneberger

software engineer

contact

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languages

Java, JavaScript

interests

professional:

data analytics
data engineering
web development
software engineering

personal:

hackathons
beer brewing
molecular biology
number theory

experience

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

Software engineer & researcher for the data science team. Developed and brought to production several proof of concepts such as named entity recognition tasks, entity linking, entity chunking, topic classification, and parts of speech models; trained from open datasets, scraped web pages, and crowd sourced data. Created robust testing and evaluation environments by migrating out of a proprietary streaming data and query system to Apache Spark. Increased revenue by creating entity similarity models and entity extraction from unscreapeable pages.

Developed a high volume, scalable big data analytic platform to gather insights from 15M domains and over 9 petabytes of data monthly. Built highly available and scalable REST web services in a containerized microservice environment. Built and managed at-scale big data pipelines that incorporate machine learning, probabilistic, and statistical algorithms. Managed and improved a look-alike modeling 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 broader Oracle Data Cloud. Converted a waterfall team to agile team.

technologies: java (dropwizard, rabbitmq, cassandra); data science (clustering, nlp, k-means, collaborative filtering, t-sne); infrastructure (hydra, spark, open tracing, kubernetes, docker, metrics, elasticsearch, kafka); javascript (react, es2017)

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