

# danielhenneberger

software engineer

## contact

Washington, DC  
20002  
United States

(301) 547 6929

jobs@danielhenneberger.com

## 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 ambiguity, increase data expressiveness, and provide highly actionable insights. Managed the technical development of an analytics platform, a high dimensional clustering system, 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