

# ROBERT L. DONAWAY

San Francisco, California • (703) 517-1477 • rldonaway@gmail.com  
linkedin.com/in/robert-donaway/ • github.com/rldonaway

## EXPERIENCE

### **Insight Data Science, *Data Engineering Fellow*** **San Francisco, California (June 2019 – present)**

- Designed and implemented a data engineering pipeline project during an intensive professional development fellowship with a focus on distributed computing at scale
- Leveraged Amazon Web Services, Spark, PostgreSQL, and Flask
- Analyzed San Francisco public transit data to identify when and where vehicles are making long, unscheduled, stops

### **General Dynamics IT, *Software Architect*** **Herndon, Virginia (January 2011 – April 2019)**

- Headed a team of 8 engineers, throughout the full project life cycle, to produce a Java EE travel portal
- Facilitated compliance with government financial policy and enabled high system performance by designing and developing a custom technical architecture, business workflow, API and user interface
- Integrated enterprise resources, such as RDBMS and secure SOAP and REST web services
- Employed Amazon Web Services features to balance load across a cluster of EC2 servers

### **Near Infinity Corporation, *Senior Software Engineer*** **Reston, Virginia (October 2005 – August 2010)**

- Built data pipelines and user interfaces for secure enterprise financial applications
- Mentored junior engineers and reviewed all production and test code
- Designed object-relational data models and DDL for Oracle and MySQL databases

### **University of Virginia, *Adjunct Professor*** **Falls Church, Virginia (September 2005 – August 2009, part time)**

- Taught graduate and undergraduate IT courses in enterprise application development in Java
- Guided and evaluated student research and development projects

### **BAE Systems, *Senior Software Engineer*** **McLean, Virginia (March 2002 – October 2005)**

- Supervised and mentored a team of 12 software engineers building a global corporate desktop
- Championed team's use of open-source and standards-based frameworks and tools

### **Northrop Grumman TASC, *Software Engineer*** **Arlington, Virginia (October 2000 – March 2002)**

- Upgraded an integrated management information system containing text, images, and documents

### **National Security Agency, *Applied Mathematician*** **Fort Meade, Maryland (August 1998 – October 2000)**

- Performed mathematical and statistical modeling for data mining, information retrieval and natural language processing applications
- Wrote programs using S-Plus, C, Perl, SQL and Unix

## SKILLS

**Languages:** Java, Python, Scala, JavaScript, SQL

**Packages and Frameworks:** Spark, Spring, Hibernate, Tomcat, Flask, Pandas

**Databases:** Oracle, PostgreSQL, MySQL

## EDUCATION

### ***Doctor of Philosophy, Mathematics***

University of Virginia, January 1999

### ***Master of Arts, Pure and Applied Mathematics***

Montclair State University, New Jersey, May 1992

### ***Bachelor of Arts, Mathematics Education (Secondary), Cum Laude***

University of Delaware, May 1988