

Gavin Heverly-Coulson, PhD

Big Data Developer

Berkeley, California, United States

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Work Experience

- **HERE Technologies** Berkeley, California
Lead Research Engineer *June 2016 - present*
 - Worked across research and production software development
 - Architected and built data pipelines and webapps running on AWS cloud and Kubernetes
 - Developed scalable geospatial and computer vision algorithms
 - Led creation of CI/CD processes for various projects
 - *Techologies:* Python, C++, Scala, Docker, MapReduce, AWS, Flink, Kubernetes, Gitlab
- **Civil Maps** Albany, California
Systems Engineer *Jan. 2016 - Apr. 2016*
 - Developed LiDAR sensor data processing code
 - Built custom MapReduce framework leveraging Docker and Redis
 - Re-implemented algorithms with MapReduce, increasing throughput an order of magnitude
 - Collaborated with tech team to introduce a continuous deployment workflow
 - *Techologies:* Python, NumPy, Docker, MapReduce, Redis

Education

- **The Data Incubator** Online
Data Science Fellow *2015*
 - Data science bootcamp to assist STEM PhDs transition to industry positions
 - *Techologies:* Python, NumPy, Data Science
- **Queen's University** Kingston, Ontario
Postdoctoral Fellow *2012 - 2014*
 - Project: Development and testing of a predictive model for static friction coefficients
 - *Techologies:* Fortran, Python, High Performance Computing
- **Dalhousie University** Halifax, Nova Scotia
Ph.D. Computational Chemistry *2008 - 2012*
 - Thesis: Computational Model of the Catalytic Cycle of Organoselenium Antioxidants
 - *Techologies:* Python, High Performance Computing
- **Bishop's University** Lennoxville, Quebec
B.Sc. Honours Chemistry *2004 - 2008*