

## Gerald A McCollam

### School Address

Department of Computer Science  
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## SUMMARY

Software developer, data architect, student, trainer and mentor. I have broad expertise in managing data for machine learning, distributed computing, image analysis, visualization, and in automation. I build and manage systems for analytics and discovery.

## PROFESSIONAL EXPERIENCE

### *Lead Data Architect, Openmine LLC*

January 2011 – Present

Openmine is a consultancy specializing in web and data services development. We design and deploy systems for automatic discovery, selection, aggregation and publication.

- Funded Two-year USDA grant, *Determining Sucrose Yield in Sugar Cane by UAV Aerial Imaging*, 2015-2017.
- One-year contract to build and manage an image analytics system, *Neuro-Informatics Data Modeling for Connectomics*, SCAN Lab, University of New Orleans and The Mind Research Network, Albuquerque, NM. (2016)
- Built and managed large-scale data systems for analytics and discovery using data pipelines, relational and non-relational databases, web and cloud services, automation.

### *Solutions Architect, Bladelogic/BMC*

July 2006 – February 2010

Bladelogic/BMC provides automation solutions for server provisioning, change and configuration management.

- Principal technical architect for clients Pfizer, Novartis, Merrill Lynch, and Vanguard.
- Technical Trainer for Client Solutions group.
- Contributor to multiple internal automation solutions.

### *Consulting Engineer, Hewlett-Packard Enterprise*

January 2003 – June 2006

Hewlett-Packard Enterprise is one of the largest IT outsourcing providers in the world. As a member of the Automated Operations Group (AOPS) I provided server, network and process-level automation systems to clients.

- Consulting Engineer to clients Time-Warner, Reuters, MSNBC, and Columbia University.

### *Consulting Engineer, Loudcloud*

January 2001 – June 2003

Loudcloud invented cloud computing. Founded by Marc Andreessen (Andreessen-Horowitz, Netscape), Loudcloud developed the Opsware server provisioning and automation suite. The company provided a range of virtualization and automation services and was acquired by EDS in 2003.

- Consulting Engineer to clients Estee-Lauder, Univision, and AT&T.

### *Technologist, Razorfish*

September 1999 – January 2001

## EDUCATION

*Candidate, Master of Science*, Biostatistics May 2017  
Department of Computer Science and Department of Psychology  
University of New Orleans, New Orleans, LA  
THESIS - Generative Models of the Human Connectome  
GPA 3.90

*Bachelor of Applied Science*, Cognitive Neuroscience May 1997  
New York University, New York, NY  
THESIS - Neural Correlates of the Language Acquisition Device.  
GPA 3.56

## SKILLS

*Advanced:*

- Application Architecture, API Development, Configuration Management, Data Center Operations, Data Management, Deployment Planning, GIS, Java, Linux, OS, NLP, Python, Shell Scripting, SQL, Web Development, Release Management, Web Services Architecture.

*Intermediate:*

- Amazon Web Services (AWS), Cluster Computing, Core.NET, Dev/Ops, Git, Hadoop, HDFS, HTML5, Javascript, JSON, MapReduce, MongoDB, Neo4j, OpenGeo, OpenLayers, PostGIS, PostgreSQL, Statistics.

*Acquired:*

- Aerial imaging, AngularJS, ArcGIS, Computer Vision (CV), Cypher, Dronekit API, Pix4D, R, SciPy Stack, UAVs.

## AWARDS AND CERTIFICATIONS

Founders Day Award, New York University, 1997.  
Cloudera Certified Developer for Hadoop (CCDH), 2014.  
OpenGeo GeoServer Certified Developer, 2015.  
USDA/SARE 2 Year Study Grant Award, 2015-2017, RD-309-129.  
Jason Stamps Memorial Scholarship Award, University of New Orleans, 2016.

## INTERESTS

Guitarist, luthier, painter, certified Yoga instructor, cooking, dancing.