

# Gerald A McCollam

## School Address

Department of Computer Science  
University of New Orleans  
New Orleans, Louisiana 70118

## Permanent Address

7700 Green Street  
New Orleans, Louisiana 70118  
(504) xxx-xxxx

## 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.
- Contracted to build and maintain 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

- 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

- Member of the Automated Operations Group (AOPS).
- 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

- Company founded by Marc Andressen (Andressen-Horowitz, Netscape).
- Developed Opsware server provisioning and automation suite.
- Consulting Engineer to clients Estee-Lauder, Univision, and AT&T.

### *Technologist, Razorfish*

September 1999 – January 2001

- Translated client requirements into deliverable and supportable web solutions.
- Organized and directed project teams.

## 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*  
New York University, New York, NY May 1997  
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, FS14-282.  
Jason Stamps Memorial Scholarship Award, University of New Orleans, 2016.

## INTERESTS

Guitarist, luthier, painter, certified Yoga instructor, cook, dance.