

Gerald McCollam

Bioinformatic Solutions Architect

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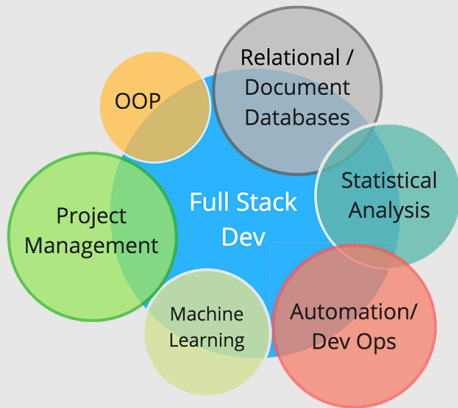


<https://geraldmc.github.io/>



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Skills



Interests

Bioinformatics

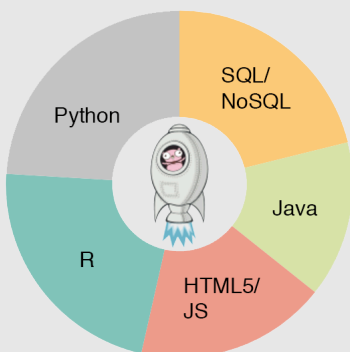
Data Science (ML)

Cloud Development (AWS or Google)

Data Engineering

Full Stack Development

Languages



Education

December, 2022

MS, Bioinformatics

Baltimore, Maryland, USA

GPA: 3.81

Specializations: DNA-seq, RNA-seq, GWAS, ML, Plant Genomics.

Johns Hopkins University

1993 - 1997

BA, Applied Linguistics

New York, NY, USA

Founder's Day Award 🏆

New York University

Research

2019-2020

Project Developer, Co-Author

University of New Orleans

- Developed a stochastic model of L1 retrotransposition in human cancer cells. (See: *Bioinformatics*, Volume 36, Issue 14, 15 July 2020.)

2016 - 2018

Grant Writer, Project Manager, Developer

SARE/USDA-ARS

- SARE/USDA Research Grant in applied machine learning for crop yield prediction via hyper-spectral imagery. (See: Project Report)

Experience

Jan 2011 -

Present

Bioinformatic Solutions Architect & Co-Founder

Openmine

- Genomic data management and analysis at scale.
- Web/cloud services automation.
- API development.

Sep 2006 -

May 2010

Solutions Architect

Bladelogic/BMC

- Principal service architect for Pfizer, Novartis, Merrill Lynch, and Vanguard.
- Code contributor to Bladelogic's provisioning and cloud services infrastructure suite.
- Technical trainer, client advocate.

Jan 2003 -

June 2006

Senior Consulting Engineer

EDS/Hewlett-Packard Enterprise

- Developed and supported automation tools for PaaS and DevOps integration.
- Managed a distributed team of network, dba, site-reliability, and sysadmin support engineers for 24/7 operations.
- Consulting Engineer to clients Time-Warner, Reuters, MSNBC, and Columbia University.

Jan 2001 -

Jan 2003

Consulting Engineer

Loudcloud

Founded by Marc Andressen (Andressen-Horowitz) Loudcloud invented cloud computing through development of its Opsware server provisioning and automation suite.

- Client-facing Consulting Engineer to Estee-Lauder, Univision, ATT.
- Conceived and developed an automated 'runbook' methodology to build and deploy full-stack applications based on configuration templates.

