Gerald McCollam

Bioinformatic Solutions Architect

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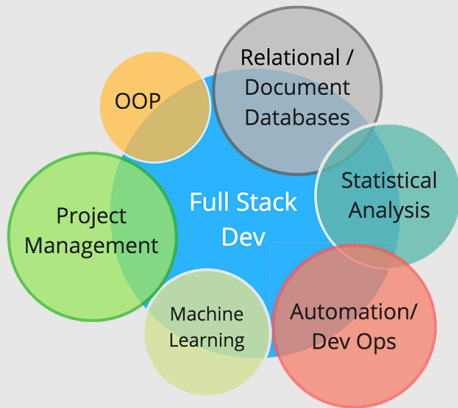
https://geraldmc.github.io/

gerald.mccollam@gmail.com
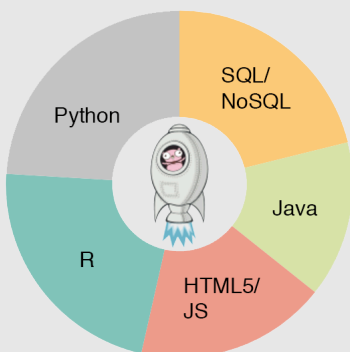
Skills

Interests

Bioinformatics

Data Science (ML)

Cloud Development (AWS or Google)

Data Engineering

Full Stack Development

Languages

Education

December, 2022	**MS, Bioinformatics**	Johns Hopkins University

Baltimore, Maryland, USA
GPA: 3.81
Specializations: DNA-seq, RNA-seq, GWAS, ML, Plant Genomics.

1993 - 1997	**BA, Applied Linguistics**	New York University

New York, NY, USA
Founder's Day Award 🏆

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.