Nishant Gerald

1434 Hillpine Ln NE, Atlanta, GA 30306 nishant.gerald@gmail.com 424-333-4638

EDUCATION

Georgia Institute of Technology, Atlanta, GA

M.S., Bioinformatics

Manipal Institute of Technology, Manipal, India

B.Engg. in Biotechnology Engineering, Genetic Engineering minor

Graduation: May 2018

Graduation: Dec 2019

EXPERIENCE

Head of Data Solutions & Principal Data Scientist Global Payments Inc., Atlanta, GA

Jun 2021 – Present

- Founded, directed and operationalized the Data Solutions division, reporting to the CTO, and directly managing a 14 member team across Data Science, Data Engineering, Data Governance, and Business Intelligence Reporting delivering over 50 high value projects, with an ARR of over \$6MM
- Founded and led AI/ML practice at Global Payments and was the primary consultant on all AI/ML activities company-wide; launched predictive analytics products in 4 countries, serving over 150,000 businesses with a model accuracy of over 97% raking in an ARR of over \$2.6 MM
- Evangelized and executed the monetization of data products from Synthetic data generation to Gen AI powered commerce copilots.
- Transformed Business Intelligence team operations through Agile practices and scrum-based approach, modernizing over 80 on-prem SQL-based reports into Looker Cloud.
- Enabled business-wide data governance by fostering collaboration with the enterprise data asset management team. Identified and remediated over 100 data risks, while also spearheading the creation of a data asset inventory and implementing a strategic data retention plan for our business unit.
- Certified Federated Architect for the business unit and was responsible for ensuring all net-new solutions adhere to enterprise information security standards and architecture standards.
- Served as the Chair for the Culture Committee (2022-2024), leading an 11-member steering committee to organize team events, lunch and learn sessions, improving our eNPS score by 12 points in 2023.

Bioinformatics Engineer

Jan 2020 - Jun 2021

General Dynamics Information Technology, Atlanta, GA

(Centers for Disease Control and Prevention - Scientific Computing and Bioinformatics Support Contract)

- **Managed infrastructure issues** for applications/services on 100+ CentOS systems; installed and configured 150+ Unix-based applications.
- **Automated LDAP** user onboarding, reducing process time by 18x, and deployed 50+ CRON jobs for system monitoring/alerts.
- **Supported high-performance computing cluster** with 80+ nodes and 2000+ cores; improved job performance through user support and script customization.
- Led development of the Scientific Computing Team's intranet website for hosting training content and user-guides; incorporated Google Analytics to inform data-driven training improvements.
- **Developed and presented** Python, Data Cleaning, Analysis, and Visualization training to 2200+ users and managed client support resolving over 1400 client tickets.

Graduate Research Assistant

Aug 2018 – Dec 2019

Lachance Lab, Georgia Institute of Technology, Atlanta, GA

Supervisor: Joseph Lachance, Ph.D.

• **Developed STRUCTURE painter**, a tool to estimate genome-wide human population-structure, optimizing data-processing parameters to speed up the process by 100%.

Ancestry.com LLC, Lehi, UT

• **Developed a variant detection pipeline** for analyzing Next Generation Sequencing (NGS) data and a Quality Control application for visualizing and summarizing NGS data to identify faulty samples.

PROGRAMMING LANGUAGES AND TECHNOLOGIES

- Scripting Languages: Python (highly proficient), Bash (highly proficient), R and JavaScript.
- Cloud Computing Platforms: GCP and AWS
- Other Technologies: UGE Cluster Computing, Snakemake, Airflow, Docker, Singularity, LDAP, Tableau, Looker, HTML, D3.js, SQL, Jenkins, Web Servers (Apache and Nginx), Google Analytics and Looker.

PUBLICATIONS

• Mathematical modeling of movement on fitness landscapes (2019): **Gerald, N.**, Dutta, D., Brajesh, R. G., Saini, S. (2019). Mathematical modeling of movement on fitness landscapes. BMC Systems Biology,110. https://doi.org/10.1186/s12918-019-0704-0

HONORS AND AWARDS

• Georgia Tech Computational Biology Faculty Research Awards for the academic years 2018 and 2019

INTERESTS

- At-home tech projects (ask me about my soil moisture sensor and jeopardy game)
- Building AI tools for everyday use
- Brewing and beer-tasting
- Soccer (Inter-collegiate level)