

# DANIEL M. GEORGE

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## EDUCATION

### University of Florida

Gainesville, FL

Bachelor of Science in Computer Science, Minor in Public Health

Expected Graduation: Dec 2026

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Networking, Databases, Machine Learning

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, Java, SQL

**Frameworks and Libraries:** React, Redux, Node.js, FastAPI, Fastify, Flask, PyTorch, TensorFlow, pandas, NumPy, scikit-learn

**Tools and Platforms:** Git, AWS, GCP, Docker, Kubernetes, Conda, SLURM, Prometheus, Grafana

**Databases:** PostgreSQL, Oracle SQL, MariaDB, Snowflake, Redis

## EXPERIENCE

### Software Engineering Intern

Jun 2025 - Aug 2025

Intradiem

Marietta, GA

- Built a **Java + Spring Boot** ingestion service processing **8,000+** daily data points from **Prometheus** and **4** microservices powering Apache Superset dashboards, cutting Google Analytics costs by **\$15,000/year**.
- Automated processing pipeline with **AWS SQS + EventBridge**, storing in **AWS RDS** (MariaDB) with **99.9%** reliability.
- Developed unit/integration tests using **JUnit + Mockito**, achieving **95%** code coverage across new service.
- Migrated **2 AWS EC2** services to **Kubernetes** by dockerizing services/writing manifests; reduced rollback from **2h** → **<5m**.

### Software Developer

Jun 2024 - Jun 2025 | Aug 2025 - Present

University of Florida College of Medicine Office of Research

Gainesville, FL

- Collaborate with stakeholders and designers to build and ship **13+** internal tools using **React + Node.js**, deployed on HPC cluster (**HiPerGator**) with **Docker**, streamlining workflows for **2000+** faculty and staff across **30+** departments.
- Co-architected **Snowflake** data warehouse for non-sensitive research data, replacing complex VPN-dependent **Oracle SQL** queries with reusable datasets and reducing **REST API (Fastify)** response times from **1s** → **<180ms**.
- Engineered an **ML** zero-shot classification system leveraging **Python + Llama 3.1-8B** API, categorizing **30,000+** research publications and assessing the impact of NIH funding legislation, saving **12+** hours of manual work weekly.

### Undergraduate Research Assistant

Aug 2023 - Sep 2025

University of Florida (LemasLab)

Gainesville, FL

- Debugged **TensorFlow CNN** for protein-peptide binding and built **Docker + CUDA + SLURM** pipelines for training, testing and computation on **HiPerGator**, enabling drug-delivery experiments on **430+** proteins across **1000s** of GPU jobs.
- Built a platform using **React + FastAPI** enabling **40+** researchers to submit jobs; reducing experiment time from **6h** → **<5m**.
- Created an **NLP** model using **spaCy + scikit-learn**, trained on **3,000+** clinical notes, achieving **86%** precision and cutting physician documentation time by **63%**.

### Lead Software Engineer

Sep 2024 - May 2025

Vetra (tryvetra.ai)

Gainesville, FL

- Led the development of core interface for AI-powered patent search platform using **Next.js + TypeScript + AWS S3**, supporting **200+** users and **\$11,000** in early-stage funding.
- Developed automated weekly pipeline embedding new active patents (**300K+ total**) via **OpenAI** large embedding API, orchestrated with **AWS Lambda + EventBridge**, and stored in **Pinecone**, reducing manual embedding effort by **90%+**.
- Built **CI/CD** pipeline using **GitHub Actions + Docker + AWS ECS**, cutting manual ops time by **80%+**.

### Software Captain

Aug 2025 - Present

Dream Team Engineering

Gainesville, FL

- Lead a **5-engineer** team maintaining org and hackathon platforms using **Node.js + Next.js** for **230+** active members.
- Implement **Grafana** alerting for **Vercel** deployments with auto rollbacks, reducing incident detection time by **70%**.
- Conduct weekly code reviews and mentor other engineers, lowering post-release defects by **60%**.

## PROJECTS

**YouPredict** | Python, FastAPI, Next.js, PostgreSQL, GCP, Docker

Jun 2025

- Developed an **XGBoost classifier** on **8K+ videos across 15 channels**, achieving **86% f1 score** predicting video virality.
- Built a daily synced ETL pipeline on a **GCP VM**, using the **YouTube Data API v3**, writing to **PostgreSQL** via **Cloud Run**.
- Deployed a **Next.js dashboard** with drift detection and prediction visualizations powered by a **FastAPI backend**.