ROHIT VEMURI

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EDUCATION

Georgia Institute of Technology | B.S. in Computer Science, GPA 3.94 — **August 2020 – December 2023**
Concentrations in Artificial Intelligence and Modeling & Simulation — **Faculty Honors, Dean's List**

EXPERIENCE

Verkada | Software Engineering Intern — May 2023 – Present
- Developing Helix Playground, a product integrating third-party point-of-sale data into Verkada's camera ecosystem.
- Designed APIs and user interface to enable customers to add, delete, and edit custom events for Helix transactions.
- Secured $2+ million deal by implementing UI to support approximate matching on license plates from camera feed.

Amazon Web Services | Software Engineering Intern — September 2022 – December 2022
- Worked with the Workforce Planning team to create solutions for business leaders to manage employee populations.
- Built a data visualization platform via QuickSight CDK dashboards and embedded platform with serverless web app.
- Created front-end with React, Redux, and Polaris to embed bar, pie, and line chart representations in UI dashboard.

Meta (Instagram) | Software Engineering Intern — May 2022 – August 2022
- Supported Instagram's data engineering team to improve the efficacy of IG Boost; a tool to promote SMB ad posts.
- Engineered machine learning models to analyze ad fields' effect on submissions, boosting retention and revenue.
- Developed random forest and linear regression classifiers to increase ad submissions and support business needs.
- Created APIs to configure and edit advertisement lead forms for iOS and Android using Python and Django.

College of Computing | Student Assistant at Georgia Tech — January 2022 – Present
- Responsible for scouting and recruiting partners for College of Computing's Corporate Affiliate Partnership Program.
- Organize career fairs, plan recruiting events, and collaborate with clubs and recruiters to build corporate relations.
- Lead weekly webinars, information sessions, Gold Carpet events, and tours of facilities for prospective students.

Fidelity Investments | Software Engineering Intern — June 2021 – August 2021
- Devised algorithms to customize Fidelity's internal page, Fidelity Central, across business sectors from user data.
- Utilized cluster and regression analysis) to determine trends between organizations and internal webpages.
- Created and deployed pipelines with Google Analytics API, Kubernetes, and Postman's to retrieve data for analytics.

University of Texas Southwestern Medical Center | Software Engineering Intern — June 2018 – August 2019
- Created algorithms to model the coevolution of 196 enzyme interactions in the folate pathway in perturbed proteins.
- Sequenced and evaluated over 12-million-point mutations of DHFR, an enzyme targeted during cancer therapeutics.
- Used Python (Pandas, Numpy, Matplotlib) to analyze each mutation's frequency, fitness, and catalytic activity.

LEADERSHIP AND RESEARCH

Bioinformatics at Georgia Tech — President and Founder: Oversee the operations and plan and organize events, workshops, and seminars for 40+ students. Marketing across Colleges of Computing, Engineering, and Sciences. Lecture members about research and common practices in industry, host guest speakers, and organize social events.

Supercomputing at Georgia Tech — Executive Officer: Lecture and engage cohort of 60+ students about high-performance computers, benchmarking practices, and organize events including faculty panels and guest speakers. Networked with NVIDIA and Sandia National Laboratories to host corporate speakers and organize recruitment events.

College of Computing Peer Mentorship — Mentor: Student mentor of the College of Computing's freshman onboarding program to support first-year computing students. Introduced cohorts of 100+ students to campus resources, advising, and career counseling. Organized one-on-one meetings, monthly hangouts, résumé workshops for incoming students.

BorgLab — GTGraffiti: Helped design a graffiti painting robot to replicate strokes via path planning and control. Motion planner used to detect painter motions and path generated through iLQR-based optimization via factor graphs. Developed in Frank Dellaert's BorgLab, the College of Computing's Robotics and Computer Vision research group.

SKILLS

Languages: Python, Java, TypeScript/JavaScript, Hack, HTML, CSS
Frameworks: Numpy, Pandas, Matplotlib, React, OpenCV, PyTorch, Scikit, Keras, Tensorflow, Django, Seaborn, TkInter
Concepts: Data Structures, Algorithms, Computer Vision, Machine Learning, Robotics, Perception, Artificial Intelligence