Ganesh Nanduru

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EDUCATION

University of Virginia, School of Engineering and Applied Science — Charlottesville, VA
Master of Computer Science — *May 2025*
- Relevant Coursework: Natural Language Processing, Reinforcement Learning, Geometry of Data — *GPA: 4.0/4.0*

Bachelor of Science in Computer Science — *December 2024*
- Graduated with Highest Distinction, SAT: 1580 — *GPA: 3.9/4.0*

PROFESSIONAL EXPERIENCE

Software Engineer Intern — May – August 2024
Chevron Corporation — *San Ramon, CA*
- Solo-authored a Power Platform webpage for 45,000 Chevron employees to apply for a fuel discount card
- Coordinated between stakeholders from Synchrony Bank, Chevron legal, and product owners to elicit business requirements for a comprehensive PowerApp solution

Machine Learning Intern — May – August 2023
Noblis, Inc. — *Reston, VA*
- Developed and trained a Variational Autoencoder to detect heart arrhythmia using ECG data with 99% test accuracy.
- Earned $10,000 in additional funding for the VAE project by presenting results to C-level executives at the Noblis summer research symposium.

Software Engineer Intern — Summers, June 2020 – August 2022
Trillion Technology Solutions, Inc. — *Reston, VA*
- Led groups of 8-12 interns to win $30,000 on average per project each summer by engineering full-stack web page demos for various contracts from FEMA and other government agencies.
- Self-taught full-stack development from programming a webscraper microservice in Golang, writing database integration scripts in SQL, and creating a Jenkins pipeline to deploy the app on OpenShift to fulfill three contracts.

RESEARCH & PERSONAL PROJECTS

Undergraduate Researcher — January 2022 – present
Collaborative Robotics Lab at the University of Virginia — *Charlottesville, VA*
- Co-developed Energy-Based World Models (https://arxiv.org/abs/2406.08862), a new approach to training autoregressive models that scales better in compute hours than Transformers; under review for *NeurIPS 2024*.
- Designed data collection & cleanup for Refer360, a new dataset of human gestures that exposes weaknesses in state-of-the-art visual classification models; co-authored paper under review for *NeurIPS Datasets & Benchmarks Track*.

President — June 2024 – Present
oSTEM at UVA — *Charlottesville, VA*
- Coordinated funding between the QVA, UVA SEAS, and Center for Diversity in Engineering to send LGBTQ+ students to the oSTEM national conference, providing them professional and academic networking opportunities.
- Grew the organization from 15 members to over 80 by planning career workshops, interest meetings, and socials.
- Hosted professionals from top firms including Google and KPMG in diversity panels and coffee chats with students.

Founder & Lead Developer — November 2020 – Present
COVID-19 Map — *Remote*
- Lead development and maintenance of https://covid19-map.com/, an interactive COVID-tracking world map.
- Accrued 10,000+ visits from users internationally by hosting on AWS and connecting to Google Search Index.
- Managed a team of six computer science students, integrating ReactJS components to assemble geographical contours and Python webcrawling scripts to collect historical COVID-19 case data into a cohesive map.

LANGUAGES, SKILLS, & INTERESTS

Languages: Telugu (Native), Hindi (Native), French (Conversational)
Technical Skills: PyTorch (Advanced), Java (Advanced), JavaScript (Intermediate), SQL (Intermediate), C (Intermediate)
Interests: Ultimate Frisbee, Plant-based cooking, Horror cinema