Neil A. Gutkin

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I am a graduate student seeking a data science or software engineering internship for Summer 2022.

EDUCATION

Master of Engineering Computer Science and Applications   *Expected – May 2023*
Virginia Polytechnic Institute and State University   *Blacksburg, VA*

Bachelor of Science Computational Modeling and Data Analytics   *December 2021*
Minors – Math and Computer Science   *Blacksburg, VA*
Virginia Polytechnic Institute and State University
Last 2 Years GPA – 3.94 | In-Major GPA – 3.83 | Cumulative GPA – 3.37

KEY SKILLS

- Conceptually and practically comfortable with **statistical modeling and machine learning** methodologies.
- Competent and capable programmer with copious experience designing, implementing, and analyzing **complex software systems** for a variety of applications.
- Experienced with both CPU and GPU-based **parallel computation**.
- Currently taking coursework in **deep learning** and **reinforcement learning**.
- Confident and experienced in collaborative settings – **strong leader and motivated team-player**.

TOOLBOX

Languages: C, Python, Java, R, MATLAB, Julia
Data Science & ML: SQL, NumPy, pandas, scikit-learn, TensorFlow/Keras, OpenAI Gym
Parallel Computing: CUDA, OpenCL, HIP, MPI, OpenMP
Markdown: LaTeX, HTML
Miscellaneous: Git, Make, Bash, SLURM

PROJECT EXPERIENCE

Capstone Project   *August – December 2021*
TEAM MEMBER   *Blacksburg, VA*

- Worked with Accenture on a team of 4 students to develop a model for inferring community socioeconomic status based on open-source remote sensing data.

MIRA   *January 2020 – December 2020*
CO-FOUNDER   *Blacksburg, VA*

- Founded a start-up, which was a part of the Fall 2020 Apex Start-Up Accelerator program at Virginia Tech
- Designed an automated aircraft inspection package, involving a computer vision enabled drone
- Presented the product to industry partners, including Boeing, GE, and Caterpillar in Spring 2020

WORK EXPERIENCE

MUFG   *June – August 2021*
SUMMER ANALYST   *Remote*

- Led a project aimed at overhauling data quality assurance systems.
- Led a team of interns to win the enterprise-wide case competition, the goal of which was designing an early talent engagement program for a hybrid work style.
- Supported proof of concept for an NLP tool for customer sentiment analysis and topic extraction in SAS.

Virginia Tech   *September 2020 – May 2021*
MATH MODELING GRADER/TA   *Blacksburg, VA*

- Course covered topics in numerical linear algebra, ill-posed inverse problems, and optimization techniques.