DRUVA KUMAR GUNDA

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EDUCATION

Texas A&M University, College Station **January 2023 - December 2024**
Master of Science in Computer Science, ***GPA 4.0/4.0*** *College Station, TX*
Courses: *Algorithms, Operating Systems, Parallel Computing, Network Security, Software Security, Information Retrieval, Data Mining.*

National Institute of Technology Raipur **July 2017 - May 2021**
Bachelor of Technology in Computer Science and Engineering, ***GPA 8.75/10*** *Raipur, India*

TECHNICAL SKILLS

Languages: C, C++, Python, bash, Java, JavaScript, Typescript, SQL, Ruby on Rails, HTML, CSS
Libraries: Jquery, NodeJs, Boost, Numpy, Pandas, Matplotlib, Scikit-Learn, Seaborn
Frameworks: Keras, TensorFlow, PyTorch, PyTorch DDP, PyTorch Lightning, torchrun, fast.ai, AngularJs, Jasmine, SonarQube.
Tools: Docker, Kubernetes, BigQuery, Looker Studio, Singularity, Github, Perforce, Postman, Slurm Manager, Azure, Git

WORK EXPERIENCE

SLB **May 2024 - August 2024**
Digital Technology Backend Intern *Houston, TX*

- Engineered and implemented data-driven solutions using SQL, BigQuery, and Looker Studio to optimize cloud resource utilization and generate actionable insights. Accelerated usage cost analysis processes by **8x** through creating interactive dashboards, streamlining operations, and improving efficiency.
- Leveraged **cloud** technologies (**Kubernetes, Virtual Machines**) to analyze microservices application performance and identify **cost optimization** opportunities. Collaborated effectively with cross-functional teams to design and deliver a cost management solution aligned with business objectives.

Texas A&M University - High-Performance Resource Computing (HPC) **August 2023 - present**
Graduate Research Assistant *College Station, TX*

- Successfully executed performance assessments across **4** Texas A&M University supercomputers. Initiated job execution on **15** Slurm cluster nodes using Singularity images to support Large Language Models such as BERT and GPT-2.
- Utilized and scaled three distributed deep learning strategies - Data, Model, and Tensor Parallelisms - across **30** GPUs in single and multi-node configurations, demonstrating expertise in optimizing model training and execution.

Factset **April 2022 - December 2022**
Software Engineer- II *Hyderabad, India*

- Improved API latency by **50 ms** through strategic endpoint development (CPP and Python) and elimination of data hub locks, enhancing overall system performance and user experience.
- Developed a securities modeling application that drove a **2x** increase in Customer Retention, demonstrating expertise in creating high-impact software solutions that drive business growth.
- Successfully migrated Factset Deployment pipelines from Jenkins to GitHub Actions, achieving a **60%** reduction in application deployment time and streamlining development workflows for increased efficiency.

Software Engineer- I **June 2021 - March 2022**

- Created an AngularJs library that significantly reduced dependencies by **4x**, streamlining application interactions and improving overall system efficiency and maintainability.
- Successfully enhanced application builds for modeling interest rate shocks, resulting in a **2x** acceleration of UI rendering. Leveraged the JAMS grid scheduler to initiate portfolio analytics and actuarial scenario jobs, leading to a **30%** increase in customer satisfaction.

PROJECTS

BeatBuddy

- Constructed a **multimodal search engine** that accepts queries via text and audio inputs. Implemented **COLBERT** for text-based search and K-Nearest Neighbors (KNN) algorithm for song recommendations.

CodeJudge

- Built a Ruby on Rails web application for automated student coding assignment grading, factoring in the number of attempts and their types. Drove a **70%** decrease in the need for manual assessment in determining problem difficulty levels.

LEADERSHIP EXPERIENCE

- Worked as mentor for k12 students in **GenCyber Camp** at Texas A&M University (2023).
- Assisted for Intelligence Processing Units (IPU) tutorial at **PEARC Conference**, Portland (2023).
- Functioned as Executive Member in **Go Green Committee** at NIT Raipur (2017-2020).