Srikar Talluri

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Education

University of California, Berkeley Aug 2021 - May 2025
Bachelor Degree in Computer Science Berkeley, CA
Bachelor Degree in Mathematics

- **GPA:** 3.85
- **Honors:** Upsilon Pi Epsilon (top 33% of CS students), Math Honors Program (grad classes + thesis), Dean's List
- **Selected Coursework:** Algorithms, Operating Systems, Machine Learning, Optimization Models, Computer Graphics, Probability Theory, Discrete Math, Linear Algebra, Abstract Algebra, Real/Complex Analysis, Statistics
- **Activities:** Math Undergraduate Student Association, Competitive Programming, Berkeley Debate, Pickleball Team

Work Experience

Talroo May 2024 – Aug 2024
Machine Learning Engineering Intern *Austin, TX*

- Leveraged & trained BERT-variant models with Tensorflow and Databricks to normalize license relationships from job descriptions with 0.98 f1 by embedding imbalanced training data
- Designed end-to-end serving architecture using Triton and Spark to support throughput of 120 tps measured on one gpu
- Revamped streaming process with ensemble of smaller spaCy NLP models, resulting in 100 million daily extractions
- Integrated license extraction model into main job search platform, boosting client conversion rate from 4% to 6%
- Tech: Databricks, Keras NLP, TensorFlow, BERT, spaCy, NER, Spark, Scala, Data Streaming, Triton, MLflow

Vogue Magazine Jun 2023 – Aug 2023
Data Engineering Intern *New York City, NY*

- Built & maintained real-time, multi-threaded pipelines using Spark to process 60+ petabytes of user data into deltalake tables to support 15,000,000 records per hour
- Deployed parallelized stream architecture in Terraform to ingest 2,000,000+ subscriber data, achieving 4x speedup
- Proposed and implemented app service to intelligently ship out overstocked products, potentially earning $175,000 annually; Achieved 1st place among intern cohort pitch competition
- Tech: Databricks, Apache Spark, Apache Kafka, AWS DynamoDB, Terraform, Docker, Astro CLI

SC Electric Automation Oct 2022 – May 2023
Software Engineering Intern *Alameda, CA*

- Designed automated communications systems in C++, reducing latency on electric grid chips by 67ms (from 150ms)
- Developed production-scale web application on 200+ GPS devices with TCP/IP and UDP networking protocols
- Engineered device classification model with Support Vector Machines, 86% of daily regression checks
- Tech: C++, Python, React, Raspberry Pi, Selenium, Jenkins, Batch Scripts, SCRUM

Selected Projects

PaintBin | Link | Repo | *React, Firebase, Firestore, Chakra-UI, Vercel, Drive API*

- Developed persistent art sharing platform with over 300,000 user generated creations and 200+ users on Firebase Cloud
- Added functionality to save, view, edit, delete drawings on fully reactive canvas, with ability to export to G-Drive
- Scaled to serve larger user base through database restructuring using composite indexing, caching, & query optimization, leading to 57% increase in read & write throughput

PintOs | Repo | *C++, C, x86 assembly, Docker, Bochs*

- Developed operating system kernel in C (without stdlib) that implements preemptive multi-threading, synchronization primitives, advanced priority scheduling, and system calls.
- Extended to support running user programs, virtual memory management, caches, and persistent extensible file system

Neural Network Visualizer | Repo | *Python, C++, NumPy, MatPlotLib*

- Implemented Visualizer for Neural Networks with non-linear function approximation and custom digit classification
- Encoded ability to vary perceptron count, layer count, activation functions to visualize optimal gradient descent

Technical Skills

Languages: Java, Python, C/C++, JavaScript, TypeScript, Ruby, Scala, SQL, Rust
Tech Stacks: Firebase, React, Flask, Django, Next.js, Node, GraphQL, PostgreSQL
Developer Tools: Apache Spark, Databricks, AWS Cloud, Google Cloud, Git, Docker, Jenkins, Postman
Libraries: Pandas, NumPy, SKLearn, TensorFlow, Keras, Pytorch, MatPlotLib, OpenCV, Selenium, OpenGL, GLSL