Srikar Talluri

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Education

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

- **GPA:** 3.85
- **Selected Coursework:** Algorithms, Operating Systems, Deep Learning, Optimization Models, Computer Graphics, Probability Theory, Discrete Math, Linear Algebra, Abstract Algebra, Real/Complex Analysis, Numerical Analysis
- **Activities:** Math Undergraduate Student Association, Competitive Programming, Berkeley Debate, Pickleball Team

Work Experience

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

- Trained ensemble transformer models for job search classifiers in tensorflow with 0.98 f1, improving baselines by 0.26 f1
- Designed end-to-end Triton serving architecture to support throughput of 120 tps measured on one gpu
- 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 real-time multi-threaded Spark pipelines to process 60+ petabytes of daily user data into deltalake tables
- Deployed parallelized stream architecture in Terraform to ingest 2,000,000+ subscriber data, achieving 4x speedup
- Developed service to smart-ship overstock, earning potential of $175k+; won 1st place in intern 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*

- Implemented automated communication 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, automating 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*

- 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 local
- 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

Honors & Awards

Honors: Upsilon Pi Epsilon (top 33% of CS students), Math Honors Program (grad classes + thesis), Dean's List
Awards: Google Code Jam (Top 500), International Collegiate Programming Contest/ACM ICPC Top 15 Division 2

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