Srikar Talluri

214-449-5920 | tallurium.com | srikartalluri@berkeley.edu | srikartalluri | srikartalluri

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

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

Work Experience

Machine Learning Engineering Intern May 2024 – Aug 2024
Talroo *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

Data Engineering Intern Jun 2023 – Aug 2023
Vogue Magazine *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

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

ChessFormer | *Python, PyTorch, GPT Transformer Models, Onnx, Lichess API*

- Designed searchless tranformer-based chess agent with 1900+ rating trained on 2,000,000+ board states with pytorch
- Achieved 92% accuracy when fine-tuned to predict expert moves from PGN datasets with integrated move legality
- Served quantized model using Onnx and linked to bot API for open play on Lichess servers

PhySolve | *Rust, Python, PyO3, Rayon, Numpy*

- Designed Python library written in Rust to simulate physics problems: kinematics, n-body problem, fluid dynamics, etc
- Wrote parallelized versions of Range-Kutta & Navier Stokes resulting in 70% speedup and 40x speedup from Python
- Built robust wrapper around Rust core using PyO3 enabling seamless integration with Python scripts

PintOs | *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

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