

# Srikar Talluri

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## EDUCATION

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### University of California at Berkeley

Aug 2021 – May 2025

*Dual Bachelors in Computer Science and Math*

*Berkeley, CA*

- **Overall GPA:** 3.85
- **Honors:** Upsilon Pi Epsilon (top 33% of CS students), Math Honors Program (grad classes + senior thesis)
- **Selected Coursework:** Efficient Algorithms, Computer Arch, Artificial Intelligence, Operating Systems, Optimization Models, Probability Theory, Multivariable Calculus, Discrete Math, Linear Algebra, Real Analysis, Quant Finance
- **Activities:** Mathematics Undergraduate Student Association, Competitive Programming at Berkeley, Poker@Berkeley, Berkeley Forum (Debate), Berkeley Formula Racing, Pickleball Team

## WORK EXPERIENCE

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### Condé Nast

June 2023 – August 2023

*Data Platform Engineering Intern*

*New York City, NY*

- Built and maintained robust, enterprise-scale pipelines to process 50+ petabytes of daily user data into delta tables
- Designed ETL processes utilizing Apache Spark, Databricks, DynamoDB to retrieve active subscriber data from AWS S3
- Proposed and implemented app service to intelligently ship out overstocked products through subscriptions, potentially earning \$175,000 annually; Achieved 1st place among intern cohort pitch competition
- **Tech:** Databricks, Pipeline ETL's, Apache Spark, AWS DynamoDB, Airflow DAG's, Docker, Astro CLI

### S and C Electric Co.

Oct 2022 – May 2023

*Software Engineering Intern*

*Alameda, CA*

- Designed and implemented automated test systems in C++ in low power environments to reduce latency on electric grids' motherboards by 67ms (from 150ms)
- Developed production-scale web application for data analysis and visualization on WiFi-enabled GPS devices
- Automated 86% of daily regression checks through intelligent device classification model with Selenium and Jenkins
- **Tech:** C++, React, Raspberry Pi, Selenium, Jenkins, Batch Scripts, SCRUM

### ANB Systems

Jun 2022 – Aug 2022

*Software Engineering Intern*

*Houston, TX*

- Improved client security by building Redaction service to secure sensitive data in documents using JavaScript
- Implemented and maintained document recognition system of 500+ PDF's using OCR detection software
- Cut debugging costs by 83% displaying backend document extraction status and metadata on user dashboard
- **Tech:** Python, Postman, JavaScript, AWS S3, OpenCV, tesseract

### Berkeley Formula Racing

August 2021 – May 2022

*Data Collection Engineer*

*Berkeley, CA*

- Prototyped and built formula-style, single-seat race car to compete in annual intercollegiate race
- Researched, contacted, and maintained relationships with 40+ sponsors, leading to \$20k increase in available budget
- Analysis of vehicle dynamics led to 15% increase in maximum HP and 6% decrease in weight, while maintaining downforce
- **Tech:** Solidworks, AutoCAD, Arduino, Soldering, Stress Calculations, Equipment Fabrication

## SELECTED PROJECTS

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### Bay Area Rapid Transit (BART) Train Schedule App | *Python, Django, React, PostgreSQL, BART API* 2023

- Developed full-stack app that provides real-time BART train departure times with Django, PostgreSQL and React
- Allows users to efficiently filter departure times based on station, line, and direction using custom SQL commands
- Implemented responsive interface using React and backend server using Django that connects to necessary API's

### Pacman Agent Model | *Python, GUI, Anaconda Virtual Env, Git* 2022

- Implemented Pacman AI using Approx. Q-learning in adversarial minimax and expectimax search problems
- Used Bayesian networks and Hidden Markov Models to find ghosts on board given noisy readings of distances

### Reprogramming Num.py in C | *C, Python, SIMD, Parallelism, Memory Allocation* 2022

- Developed simplified version of NumPy Python library in C for fast matrix multiplication and array manipulation
- Achieved speedup ratio of 55.7x times using parallelism and Single Instruction Multi Data (SIMD) commands

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, R, SQL, Bash, VBA

**Frameworks:** React, Django, Mongo, PostgreSQL, Next.js, Node, JUnit, Material-UI, Apache Spark

**Developer Tools:** Git, AWS Cloud, Github/Gitlab/BitBucket, Docker, Jenkins, Postman, VS Code, IntelliJ, Conda

**Libraries:** pandas, NumPy, Matplotlib, OpenCV, Discord.py, BeautifulSoup, SKLearn, TensorFlow, Selenium