

# Kavya Agar

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Houston, TX | (832) 507-3872

## EDUCATION

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### Texas A&M University

May 2027

*Bachelor of Science in Computer Science — Minors in Business and Statistics*

*GPA: 3.5*

- **Coursework:** Data Structures & Algorithms, Computer Systems, Linear Algebra, Probability & Statistics, Computer Graphics
- **Organizations:** Texas A&M Computing Society, SASE, Aggie Data Science Club, Aggie Coding Club

## SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, Swift, SQL, R

**Frameworks:** React, Django, Flask, REST APIs, PyTorch, TensorFlow, Hugging Face, LangChain, Scikit-learn, Pandas

**Cloud & DevOps:** AWS (EC2, S3, SageMaker, Step Functions, Lambda), Docker, Kubernetes, Terraform, Git, CI/CD (Jenkins, GitHub Actions, ArgoCD), Grafana

**Data & ML:** PostgreSQL, MongoDB, DynamoDB, Cassandra, NLP, Deep Learning, MLOps, ETL Pipelines

## PROFESSIONAL EXPERIENCE

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### Perplexity – Campus Ambassador

College Station, TX

*User Acquisition & Growth Marketing*

*Nov 2024 – Present*

- Driving campus adoption of the Comet browser, resulting in a **20% week-over-week increase** in active installs at Texas A&M.
- Onboarded **100+ new users** through targeted demos and student organization outreach highlighting AI-search productivity.

### Aspen Technology – Technical Business Analyst Intern

Houston, TX

*Analytics Platforms (Python, BeautifulSoup, Excel)*

*Jan 2024 – Apr 2024*

- Built automated Python web-scraping pipelines using BeautifulSoup and Selenium to analyze **5+ analytics platforms**, reducing manual research time by **60%**
- Partnered with PMs and engineers to translate data insights into product strategy, contributing to an estimated **15%** revenue impact

### JPMorgan Chase & Co. – Software Engineering Intern

Houston, TX

*Team Lead (Java, Apache Cassandra, AWS S3, Parquet, Agile)*

*Jun 2023 – Aug 2023*

- Engineered a multithreaded Java pipeline migrating **10TB+** of distributed Cassandra data to AWS S3, improving migration throughput by **90%**
- Collaborated with **3 senior engineers** through **10+ code reviews** to harden system reliability, performance, and data integrity
- Led daily Agile stand-ups for an **8-person** cross-functional team, coordinating sprint execution and presenting to Executive Directors

## PROJECTS

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### *Options Pricing Engine (Python, FastAPI, React, SciPy, yfinance)*

*May 2026 - Present*

- Derived Black-Scholes Greeks analytically and validated Monte Carlo convergence (**50K simulations**) using antithetic variate variance reduction
- Built implied volatility solver via Brent's method across live SPY options chain, surfacing theoretical vs. market mispricings in a React Greeks heatmap

### *Financial NER Analyzer (Python, PyTorch, HuggingFace, AWS, React, Docker)*

*Aug 2025 – Nov 2025*

- Built document classifier with custom entity recognition for transaction data, fine-tuning DistilBERT to achieve **98% accuracy**
- Architected a fault-tolerant AWS pipeline (Step Functions, Textract, SageMaker) processing **500+ documents/week**

### *Stock Sentiment Dashboard (Python, AWS, Hugging Face, Terraform, Flask, React)*

*May 2025 – Jul 2025*

- Deployed an end-to-end ML pipeline serving **50+ users** with real-time sentiment analysis from Reddit and Finnhub
- Implemented ensemble NLP inference (Transformers + VADER) achieving **78% accuracy**

### *FIN-ance (Django, React, TensorFlow, SwiftUI, PostgreSQL, Docker, OAuth 2.0)*

*May 2025 - Jun 2025*

- Built cross-platform payment/expense app processing transactions with ML spending forecasts (**90% accuracy**) for **100+ beta users**
- Designed Django REST API handling **1,000+ daily requests** with OAuth 2.0 and real-time mobile/web sync

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner (CLF-C02)** | Issued Jun 2025 · Expires Jun 2028

**IBM DevOps & Software Engineering (15-Course Professional Certificate)** | Issued Jul 2025

**Databricks Generative AI Fundamentals** | **BCG GenAI Job Simulation**