

Harsha Pasham

Jersey City, NJ - Open to relocation

pashamsaisriharshareddy@gmail.com | +1 (201) 241-9415 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Builder who Ships. Published Chrome extension, built iOS/Mac integration app, optimized fraud detection with Graph Neural Networks, scaled ML systems to 25M+ records. Data scientist with product instincts. Strong in NLP, graph learning, production ML. The kind of person who builds things people actually use.

Skills

ML/AI: PyTorch, TensorFlow, Scikit-learn, XGBoost, Graph Neural Networks, LangChain

Data: Pandas, NumPy, Spark, PySpark, Tableau, Power BI, SQL, Geospatial

Infra: AWS (EC2, S3), GCP, Dataproc, MongoDB, PostgreSQL

Languages: Python, JavaScript, Swift, R, SQL

Dev Tools: REST APIs, WebSockets, Chrome Extensions, Streamlit

Experience

Project Coordinator — *Stevens Institute of Technology Sept 2024 – May 2025*

- Ran operations for 12+ high-profile events
 - Built tools that cut issue resolution time by 60%
 - Data analysis → leadership insights. Small team, real impact
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Projects

[AI Context Transfer Extension](#) *JavaScript, Node.js, Chrome APIs*

- Built Chrome extension that actually solves AI rate limiting problems
- Transfers context between different AI tools seamlessly
- Published to [Chrome Web Store](#). People use it daily. Learned: simple solutions to real pain points win

[Fraud Detection Engine](#) *PyTorch, XGBoost, Graph Neural Networks*

- Hybrid model combining GNNs + XGBoost for transaction analysis
- 93% precision, 25% fewer false positives than baseline
- Graph-based learning on transaction networks. Fraud is about relationships, not just features

[Movie Recommender at Scale](#) *Apache Spark, GCP, PySpark*

- Production ALS system handling MovieLens 25M dataset
- Multi-node GCP deployment with cold-start optimization
- RMSE < 0.8, sub-second latency. Scale changes everything about how you architect

[iOS/macOS Trackpad App](#) *Swift, JavaScript, WebSockets*

- Wireless trackpad with 120fps multi-touch gesture recognition
- System-level Mac integration via CGEvent APIs
- 11 development phases and ongoing. Learned the difference between "works" and "ships"

[AI Resume Platform](#) *LangChain, OpenAI API, NLP*

- Semantic resume-job matching with automated optimization
- Combined with separate resume parsing system for complete hiring pipeline
- 40% faster job applications. LangChain makes complex NLP surprisingly straightforward

[Bitcoin Trading System](#) *Python, Financial APIs, Selenium*

- Real-time crypto analytics with multi-exchange data integration
- Automated backtesting + risk management framework
- Full trading pipeline from data collection to execution. Markets are harder than ML papers suggest

Education

M.S. Data Science — Stevens Institute of Technology *GPA: 3.6/4.0 | May 2025*

B.Tech Electrical & Computer Engineering — Amrita University | *2019 – 2023*

Certifications

[Cloud Foundations](#) - AWS Academy | [Data Engineering](#) - AWS Academy | [Machine Learning](#) - Stanford Online
[Neural Networks & Deep Learning](#) - DeepLearning.AI | [TensorFlow for AI/ML/DL](#) - DeepLearning.AI

What I'm Looking for

Places that build things people want. ML/NLP/backend roles where I can own meaningful pieces of hard problems.
Teams that move fast and measure what matters. Products with real users, real impact.