Shreyas

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SUMMARY

Master's student in Computer Science at Northeastern University (May 2025) with 3.5 years of software engineering experience. Passionate about backend and platform development, AI-powered systems, and scalable microservices. Actively seeking full-time new grad software engineering roles starting Summer 2025.

EDUCATION

Northeastern University, Boston, MA · **Expected: May 2025**
Master of Science in Computer Science · *GPA: 3.5/4.0 (optional)*
Relevant Coursework: Distributed Systems, Advanced Data Management, Cloud Computing, High-Performance Databases

Visvesvaraya Technological University, India · **June 2021**
Bachelor of Science in Computer Science
Relevant Coursework: Database Systems, Big Data Analytics, Operating Systems

WORK EXPERIENCE (3.5 YEARS)

Founding Software Engineer · **Sept 2024 – Present**
Echelon · Boston, MA (Remote/Hybrid)

- Spearheaded the architecture and deployment of scalable Python Flask microservices, powering real-time AI/ML-based loyalty analytics planned across 50+ businesses.
- Designed clustering models for personalized rewards using unsupervised learning, increasing customer retention by 30% and redemptions by 20%.
- Led cross-functional development of a React-based admin portal, delivering actionable behavioral insights and enhancing business decision-making.
- Collaborated with design and product teams in agile sprints and led sprint planning for 2 junior developers.

Software Development Engineer · **Mar 2021 – Jan 2024**
BETSOL – REBIT Backup Solution · Broomfield, CO / Remote

- Engineered scalable ASP.NET Web API microservices and led performance optimizations that reduced API response times by 50%
- Spearheaded the design and development of Zmanda Cloud Storage (ZCS), a Wasabi-powered S3-compatible storage backend, significantly boosting speed, scalability, and security.
- Designed and implemented a chunk-level deduplication algorithm in C and C++ to reclaim storage space, achieving a 30% reduction in backup storage footprint.
- Mentored junior developers, guiding them through complex backend builds and fostering strong development practices across the team.

PROJECTS

Espresso: AI-Powered Loyalty Program for Cafés

- Developed a full-stack platform using React, Node.js, and MongoDB, managing 100K+ daily transactions for small businesses.
- Engineered an unsupervised clustering model to personalize offers, improving user segmentation and increasing weekly customer visits.

Shreyas AI: Personalized Conversational Chatbot

- Built an AI chatbot with GPT-4, LangChain, and FastAPI, reducing support response time by 60% and improving satisfaction scores by 25%.
- Integrated FAISS vector embeddings for context memory, enhancing dialogue continuity and relevance by 30%.

Windows Shell Feature Enhancements

- Designed and implemented enhancements for the Windows taskbar and Start menu using C++ and XAML, improving usability and responsiveness.
- Developed system-level event listeners and custom shell extensions, improving interactive performance by 40%.

SKILLS

Programming Languages: Java, Kotlin, Python, C++, SQL, Bash
Databases: PostgreSQL, MySQL, SQL Server, Snowflake, MongoDB, Redis
Cloud Technologies: AWS (Lambda, DynamoDB, S3, EC2), Azure
Frameworks: FastAPI, Flask, Spring Boot, Kafka, Airflow
DevOps: CI/CD (GitLab, GitHub Actions), Docker, Kubernetes, Terraform