




AAYUSH ANAND

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EDUCATION

New York University

Master of Science in Computer Science; GPA: 3.889/4.00

Expected May 2026

New York, USA

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering; GPA: 9.58/10

Sep 2020 – May 2024

Chennai, India

WORK EXPERIENCE

The NorthStar Group — New York, USA

Sep 2025 – Present

Software Engineering Intern

- Enhanced the functionality of **The Source website** by resolving backend/frontend issues, optimizing workflows, and ensuring reliable performance across **desktop and mobile platforms**, improving load stability by **25%**.
- Drove adoption of **AI integration projects** by researching tools, executing workflow experiments, and refining **AI-driven features**, cutting deployment errors by **15%**.
- Partnered on end-to-end **mobile and web application development** using **React, Node.js, SQL**, contributing to feature coding, system debugging, and user testing; reduced bug resolution time by **20%**.
- Advanced organizational **security improvements** through plugin/theme audits, vulnerability analysis, and malware remediation, enabling continuous **performance monitoring** and mitigating **30+ threats** with zero downtime.

BeAhead Pvt Ltd — Remote (Washington DC, USA)

May 2025 – Aug 2025

Full Stack Engineering Intern

- Engineered a **full-stack EdTech platform (React, Node.js, PostgreSQL, AWS)** with gesture-based interactions, enabling **200+ concurrent users** and cutting response times by **30%**.
- Architected secure **REST APIs**, integrated **JWT authentication**, and tuned database queries, which increased backend throughput by **35%** and improved request handling efficiency.
- Facilitated agile collaboration in a team of 6 by leading code reviews, writing unit/integration tests, and enhancing **CI/CD pipeline stability by 20%** through Dockerized deployments with **GitHub Actions**.

Indiana University — Indianapolis, USA

Jun 2025 – Aug 2025

Data Analytics Research Intern

- Performed **XML file analysis** and pre-processing of **GC/MS spectral data** using **Python + R**, reducing feature extraction time by **75%** and ensuring accuracy for downstream workflows.
- Assisted in **GCMS pipeline optimization** with statistical modeling and visualization in **R**, cutting manual intervention by **60%** and accelerating research throughput for **3+ teams**.

PROJECTS

SparkSearch — Distributed Search Engine (GitHub) — Apache Spark, PySpark, Spark SQL, AWS S3, Python, Typescript

- * Developed a distributed **search engine** handling **50 GB+ corpora**, enabling sub-second queries across millions of records and orchestrating an **ETL pipeline** for **100K+ documents/day** with **95% uptime**.
- * Integrated **Elasticsearch** for ranking/faceting, delivering **3x faster query responses**, and scaled throughput to **1M+ queries/month** with fault-tolerant deployments.

Smart Subtitle Summarizer (GitHub) — React.js, FastAPI, spaCy, Whisper, Scikit-learn, Chart.js

- * Implemented a modular **FastAPI backend** with async task handling, supporting subtitle cleaning/summarization for **30+ users** at **95%+ accuracy**, while reducing analysis time by **40%**.
- * Delivered an interactive **React + Chart.js frontend** with keyword analytics, playback, and reporting features, boosting engagement by **25%**.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, C#, SQL, HTML/CSS, R

Frameworks & DevOps: Django, Flask, .NET, FastAPI, React, Node.js, Next.js, Spring Boot, Docker, Kubernetes, Jenkins, Git, JUnit, Mockito, Typescript, Data Structures and Algorithms, Object Oriented Programming

ML / Big Data / AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers, PyTorch Geometric, MLflow, Hadoop, Spark, Kafka, Hive, MapReduce, HDFS, FAISS, Vector Databases (Pinecone, Milvus), MongoDB, NoSQL

Cloud / Platforms: AWS, Microsoft Azure, GCP, Linux, Windows, Web, iOS, Tableau, Jira, Power BI

ACHIEVEMENTS

- Selected among **Top 10 ideas** from **150+ submissions** at the **Continental Hackathon, Bangalore**; secured **3rd place** for developing an AI-driven prototype under F2S Continental Innovation Challenge.
- Published paper on *Detection of Distracted Driver using Deep-Learning Algorithm* in **IEEE Xplore (Link)**.
- Awarded academic **scholarships totaling \$15,000** during **B.Tech and M.S.**, recognizing consistent academic excellence.