Anuraghav Padmaprasad

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Education

New York University Expected May 2027

B.S Computer Science, Minor: Mathematics, Business *GPA: 3.8/4.0 Deans List*

- Relevant Coursework: Databases, Algorithms, Data Structures, Operating Systems, Object Oriented Programming, Human Computing Interaction, Dynamic Web Applications, Intro to Machine Learning, Machine Learning Ops

Technical Skills

Languages : Python, JavaScript/TypeScript, Java, SQL (Postgres, MySQL), MongoDB, C++
Frameworks and Modules : React, Node.js, Django, Flask, Librosa, TensorFlow, Pandas, NumPy, Matplotlib
Developer Skills : AWS, Kubernetes, Docker, Linux, Redis, DuckDB, Git, CI/CD, REST APIs
Concepts : Distributed Systems, Scalable Backend Architecture, REST API Design, Performance Optimization, Agile

Experience

McKinsey & Company May 2025 - Aug 2025

Fullstack Engineering Intern *New York City, NY*

- Designed and developed a full-stack platform for traders and finance teams to create, monitor, and benchmark financial products, supporting real-time analytical workflows saving 40+ hours every month.
- Built modern, low-latency frontend experiences using React, Vite, and Tailwind CSS, integrating with RESTful APIs to support real-time data visualization and intuitive user interaction.
- Architected and implemented scalable backend services using Django and PostgreSQL, developing 20+ modular Python data access layers to support high-volume financial queries and quantitative processing logic.
- Engineered a Redis- and DuckDB-based distributed caching layer on AWS, optimizing serialization and compression strategies to improve write throughput by 1000% and reduce read latency by 300%.
- Configured and monitored Kafka brokers on Linux, ensuring reliable, high-throughput asynchronous messaging.

Olympix Sep 2024 – Apr 2025

Fullstack Developer Intern *New York City, NY*

- Re-architected the Olympix VSCode extension's frontend using React, TypeScript, and SCSS, implementing modular components and state management patterns that reduced UI load times by 35%.
- Designed and built RESTful APIs from scratch, integrating them with frontend modules to support seamless, real-time user interaction, while writing unit tests to ensure reliability and maintainability.
- Ensured mobile and cross-browser compatibility for 10+ client-facing web apps using UI/UX best practices, leveraging Agile practices and CI/CD pipelines to streamline deployment and maintain consistent performance.

Intel Apr 2022 – July 2022

Software Engineering Intern *Ahmedabad, India*

- Selected as 1 of 10 participants from 300,000+ applicants for a competitive engineering program and presented to UNESCO; Trained computer vision models using OpenCV in a Linux-based HPC environment.
- Designed and deployed scalable backend services using Spring Boot and RESTful APIs, containerized with Docker and deployed on cloud infrastructure to support distributed access and system reliability.

Leadership & Teaching Experience

NYU - Teaching Assistant for Data Structures & Algorithms Jan 2026 – Present

Lead weekly recitations for 100+ students, graded homeworks and created questions

New York University - Head Computer Science Tutor Sep 2024 – Present

Lead and coordinate a team of 15+ tutors supporting 300+ students across core CS courses.

- Tutor in Data Structures, Algorithms, Object Oriented Programming, Software Engineering and Databases

Projects

Cognitive Music Streaming Application | TensorFlow, Flask, React Native, AWS, Librosa Sep 2025

- Designed and implemented a real-time, full-stack, emotion-aware music streaming platform distributed system that recommends music in real time from weather and mood, powered by trained & fine-tuned TensorFlow models.
- Deployed React Native based app on AWS (EC2, Lambda, S3, RDS) with modular microservices, ensuring scalability, low-latency predictions, and a fault-tolerant distributed architecture.