

Sanjay Baskaran

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EDUCATION

University of Colorado Boulder

Aug 2024 - May 2026

Master of Science in Computer Science (GPA: 4.00 / 4.00)

Boulder, CO

- **Relevant Coursework:** Datacenter Scale Computing, Network Systems, Big Data Architecture, Cybersecurity

Vellore Institute of Technology

Jul 2018 - May 2022

Bachelor of Technology in Information Technology (GPA: 8.66 / 10.00)

Vellore, TN

- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS, WebRTC, gRPC

Cloud & DevOps: AWS (EC2, S3, CloudFront, Route53, RDS), Azure, Docker, Kubernetes, CI/CD, Git, Bash, Nginx

Datastores: PostgreSQL, MongoDB, Snowflake, Redis, Kafka

Tools & Platforms: Prisma, Jira, Linux, OpenAPI, REST APIs, Microservices, Distributed Systems, Cloudflare Workers

EXPERIENCE

Adobe

Jul 2022 – Jun 2024

Software Engineer

Bangalore, KA

- Engineered backend services in **Java** using modular frameworks (**Sling**, **OSGi**) to optimize request handling, resulting in **30%** improvement in **Google Lighthouse** performance scores.
- Implemented headless content delivery by exposing content through **RESTful** and **GraphQL** APIs, enabling automation with analytics/personalization platforms and reducing manual data integrations by **80%**.
- Developed **50+** reusable components (**Sling Models**, **HTL**, **JCR**), cut development effort by **50%**, and saved **\$50K** across projects.
- Built CI/CD pipelines with **GitLab**, **Maven**, **JUnit**, **SonarQube**, and **Docker**, which accelerated release cycles by **35%** while enforcing consistent code quality and security across environments.

Tata Consultancy Services

Feb 2022 – Jun 2022

Software Engineer Intern

Bangalore, KA

- Developed a real estate aggregation platform with **Express** backend and **React** frontend, integrating **5+** third-party property listing APIs into a unified search experience.
- Implemented **Redis** caching and tuned **PostgreSQL** queries, improving average search response times by **40%** across property listings.
- Built **ETL** pipelines in **Node.js** using scheduled jobs (**node-cron**), extracting, normalizing, and enriching **10K+** property listings to ensure consistent search and filtering.

Edulyt

Jun 2020 – Jul 2020

Data Analyst Intern

New Delhi

- Automated preprocessing of **50K+** student records with **Python (Pandas, NumPy)**, cutting data inconsistencies **18%** and standardizing datasets for advanced analytics.
- Built interactive **Tableau** dashboards for attendance and exam performance, boosting data accessibility and enabling **30%** faster decisions for educators and administrators.

PROJECTS

Vital Farms

- Engineered an end-to-end machine learning pipeline in Microsoft Fabric, achieving **91%** accuracy in production forecasts by leveraging **T-SQL** for data extraction and Python (**Pandas**, **Scikit-learn**) for feature engineering.

Demucs Audio Separator

- Engineered an audio separation service powered by Demucs on **GCP**, deploying **Kubernetes**-orchestrated **Docker** containers. Integrated **Redis** for managing distributed job queues and **MinIO** for scalable **S3**-compatible storage.

CERTIFICATIONS

GitHub Foundations: GitHub Certified [\[Certificate\]](#)

Azure Fundamentals: Microsoft Certified [\[Certificate\]](#)

Security Analyst (SSC/Q0901) NSQF Level 7: National Association of Software and Service Companies