

SATYANARAYANA CHILLALE

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EDUCATION

New York University, Courant Institute of Mathematical Sciences

New York, NY

Master of Science in Computer Science; GPA: 3.9/4.0

Aug 2023 – May 2025

- **Relevant coursework:** Honors Analysis of Algorithms, Artificial Intelligence, Deep Learning, Conceptual Gaps in Modern Machine Learning, Operating Systems, Computer Vision, Big Data Application Development, GPUs

PES University

Bangalore, India

Bachelor of Engineering in Computer Science and Engineering; GPA: 3.6/4.0

Aug 2013 – June 2017

- **Relevant coursework:** Data Structures with C, Unix, Operating Systems, DBMS, Software Architecture, Computer Architecture, Systems Software, Software Engineering
- Achieved a top 5 ranking out of 200 teams at the inGenius Hackathon for developing a solution that substantially reduces ambulance travel time.

WORK EXPERIENCE

Oracle India Private Limited

Bangalore, India

Senior Member Technical Staff

May 2021 – Aug 2023

- Spearheaded the transition of the Oracle Blockchain Platform from on-premise to a **cloud-based Kubernetes architecture** using service mesh. Played primary role in designing security, networking, and deployment.
- Key member of a five-engineer team that developed and launched MicroTx, a **cloud-native GoLang service** for orchestrating distributed transactions across polyglot micro-services, achieving a throughput of 2200 transactions per second. Developed the (CI/CD) pipeline on Jenkins.
- Mentored two junior developers, providing training to transition smoothly from academia to corporate roles.

SAP Labs India Private Limited

Bangalore, India

Developer

July 2017 – May 2021

- Implemented a **server-driven user interface system** that streamlines front-end development and delivered 5x acceleration in product and feature development and saved up to 50% of engineering resources.
- Developed data browsing features and security for a HANA database browser tool, Data Preview and implemented several Eclipse IDE plugins for enhancing the productivity of enterprise application developers.
- Delivered numerous lectures and workshops at SAP TechEd, a global technology event, focusing on development of modern enterprise applications using the RESTful ABAP Programming Model.

SKILLS

Programming: Java, Go, C++, Python, CUDA

ML: PyTorch, scikit-learn, Pandas, NumPy

Cloud: Docker, Kubernetes, Istio, Helm, AWS

Databases: SQL, PostgreSQL, MongoDB, etc

Frontend: React, Next.js, Vue.js, TypeScript, SWT

Backend: Node.js, Helidon, REST, GraphQL, Spark

PROJECTS

- **Future Video Frame Prediction:** Secured a top-five position among 20 teams in a course project that predicted the 22nd frame of a video featuring moving objects of various shapes, colors, and sizes. Utilized the **UNet architecture** for mask generation and implemented **Masked Conditional Video Diffusion** to model object movements and generate the final frame accurately.
- **Image Geolocation:** Developed an advanced image geolocation system using CLIP and RAG techniques. Implemented a **novel hierarchical feature clustering approach**, reducing the search space by 100x while maintaining accuracy comparable to state-of-the-art methods. The system achieved competitive performance on the IM2GPS3k benchmark, with up to 85.08% accuracy at the continent level and 15.01% at the street level.
- **Enhanced AODV:** Led a four-member team in my final undergraduate year to implement an algorithm that **improved the efficiency of communication** among mobile devices in an ad-hoc network. Achieved 20% faster delivery time and a 25% reduction in energy consumption.

SOFT SKILLS

- Drove public engagement initiatives while serving as the Vice President of Public Relations at Ascent Toastmasters.
- Certified as a Competent Communicator and Leader by Toastmasters International.