

Shreyas Sunkad

+1 (217) 766-2803 — sunkad.shreyas@gmail.com — linkedin.com/in/shreyas-s23 — github.com/sunkadshreyas

EDUCATION

- **University of Illinois, Urbana-Champaign** Jan 2024 - May 2025
Masters in Computer Science (MCS) GPA : 4.0/4.0
Coursework: Distributed Systems, Database Systems, LLMs in Software Engineering
- **RV College of Engineering** Aug 2018 - May 2022
Bachelors in Computer Science and Engineering CGPA : 9.35/10.0
Coursework: DS & Algo, AI/ML, OS, Computer Networks, Databases

TECHNICAL SKILLS

- **Languages:** C++, Golang, C, Python, Java
- **Cloud Technologies:** AWS RDS, EC2, S3, Lambda, Systems Manager
- **Frameworks/Libraries:** Tensorflow, Flask, Numpy
- **Software Development Tools:** REST API Design, gRPC, Git, Jira
- **Web Technologies:** HTML, CSS, Javascript, React

EXPERIENCE

- **University of Illinois, Urbana-Champaign** Champaign, Illinois
Course Assistant May 2024 - Dec 2024
 - Assisted class of 200 students in Database Systems course dealing with **MySQL, MongoDB and Neo4J** assignments. Guided undergrad students in semester long projects for Software Design Lab
- **Clumio** Bengaluru, India
Member of Technical Staff, Backend Engineer Jan 2022 - Dec 2023
 - Designed and implemented backup and restore support for MSSQL databases on EC2, utilizing **FCI** architecture.
 - Improved the **MSSQL on EC2** offering by integrating customer-driven features, including easier onboarding through CloudFormation templates and custom SSM document, additional support for **AAG** databases with secondary replicas.
 - Integrated SCIM protocol support allowing customers to sync user profiles and roles from various identity providers to the platform, saving **hours of manual work** for IT admins.
 - Transitioned RDS record retrieval from an EC2-based to a AWS Lambda-based approach, **reducing monthly cost by 90%**. Added support for backups and restores of RDS databases with option groups and introduced automated metering to streamline customer billing based on usage.

PROJECTS

- **Distributed Key Value Store** | Golang (Code)
 - Implemented a fault-tolerant key/value store in Golang with **Raft** layer for consensus algorithm and key-value layer on top of the Raft service. Raft implementation includes leader election, persistence, log replication and compaction.
- **Automated Invoice Management System** | Python, Flask, OpenCV, MySQL (Code)
 - Presented ML pipeline to process invoice information with **accuracy of 90%**. Integrated custom trained **Tesseract OCR** model for recognizing special characters. Built a web framework surrounding the pipeline using Flask, MySQL and MongoDB.
 - Published a paper titled Automated Invoice Data Extraction using Image Processing in International Journal of Artificial Intelligence (IJ-AI) capturing the text detection and recognition pipeline.
- **Segmentation of Satellite Imagery** | Python, Numpy, Tensorflow (Code)
 - Trained deep learning segmentation models like **UNet** and ResNet to detect geographical entities in satellite images for an ISRO research project, achieving **accuracy of 85%**. Utilized a Python wrapper for ArcGIS for image preprocessing and mask annotation, and employed TensorFlow for model training.