

# Shreyas Sunkad

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## EDUCATION

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

## EXPERIENCE

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- **University of Illinois, Urbana-Champaign** Champaign, Illinois  
Course Assistant, CS411 Database Systems May 2024 - Aug 2025
  - Monitored and assisted class of 200 students with their learning, graded assignments, conducted tests, and edited course content. Created assignments for **MySQL, MongoDB and Neo4J**.
- **Clumio** Bengaluru, India  
Member of Technical Staff, Backend Engineer Jun 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.
  - Implemented **SCIM** protocol integration, allowing customers to automatically sync user profiles and roles from various identity providers to the platform.

Member of Technical Staff, Intern Jan 2022 - Jun 2022

  - Transitioned RDS record retrieval from an EC2-based to a **AWS Lambda**-based approach, saving 90% in monthly costs. Developed features for backups and restores of RDS databases with option groups and introduced automated metering to streamline customer billing based on usage.

## PROJECTS

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- **Segmentation of Satellite Imagery** | Python, Numpy, Tensorflow
  - Trained deep learning segmentation models like **UNet** and ResNet to detect geographical entities in satellite images for an ISRO research project. Utilized a Python wrapper for ArcGIS for image preprocessing and mask annotation, and employed TensorFlow for model training.
- **Automated Invoice Management System** | Python, Flask, OpenCV, MySQL
  - Collaborated within a team to develop a machine learning-driven web application dedicated to invoice data management. Utilized OpenCV for identifying text regions within invoices and incorporated OCR models to extract text information. Developed a user-friendly web interface using Flask framework. Stored invoice metadata in MySQL and managed actual invoice documents in 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.
- **Distributed Key Value Store** | Golang
  - Developed a fault-tolerant key/value storage system in Golang using **Raft** for consensus algorithm, implementing leader election, log replication and compaction. Built a key-value service on top of the Raft layer to ensure consistent data across distributed nodes.

## TECHNICAL SKILLS

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