Shreyas Sunkad

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EDUCATION

- **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

- **University of Illinois, Urbana-Champaign** — Champaign,Illinois
  Course Assistant, CS411 Database Systems — May 2024 - Aug 2024
  - 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.
  - 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.

  Member of Technical Staff, Intern — Jan 2022 - Jun 2022
  - 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
  - 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, persistance, log replication and compaction.

- **Automated Invoice Management System** | Python, Flask, OpenCV, MySQL
  - Collaborated with a team to develop a text detection and recognition pipeline to identify various elements in invoice. Used OpenCV and OCR models for pipeline, achieving an **accuracy of 90%**. Web interface developed in Flask with MySQL database for storing Invoice metadata and MongoDB for storing actual invoices.
  - 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
  - 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.

TECHNICAL SKILLS

- **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