Nehal Nagaraj Shet

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EDUCATION

Bachelor of Engineering in Information Science & Technology Aug. 2018 – July 2022
R.V. College of Engineering, GPA 9.14/10 *Bengaluru, India*
Coursework: Software Engineering, Data Structures & Algorithms, Operating Systems, AI/ML, Database Design, Computer Architecture, Networks.

TECHNICAL SKILLS

Languages and Frameworks: Python, Go, C, C++, Bash Scripting, Spark, Nifi, StackStorm, Ollama, Tensorflow.

Databases: MongoDB, SQL, ElasticSearch, MilvusDB, Hive.

Technologies: Git, APIs, Kubernetes, Docker, Platform9, AWS, Prometheus, Jenkins, Neural Networks, Object Detection, OpenCV, OCR, LLM.

EXPERIENCE

Software Engineer II July 2022 – July 2025
Cloudera *Bengaluru, India*
- Administered and optimized Cloudera's internal CDP cluster deployer and scheduler framework, significantly improving efficiency and performance across the company's internal operations.
- Designed and developed an internal tool that automates the triaging of failed runs, builds, processes, and workflows at scale. The tool analyzes over 10,000 logs daily, reducing manual failure analysis by 70%.
- Developed CDP Assistant to answer internal queries and provide cluster details using CDP API, Documentations, MilvusDB and Llama3.
- Enhanced the reliability and resilience of our internal services and infrastructure by leveraging StackStorm, Prometheus, and Grafana, achieving an 80% reduction in manual maintenance requirements.
- Buddy to an intern on the team. Responsibilities included project onboarding, technical setup, and mentoring throughout their tenure.

Software Intern Jan. 2022 – July 2022
Cloudera *Bengaluru, India*
- Centralized Notification Framework: Designed and implemented a scalable notification framework with seamless third-party integration, capable of managing over 250,000 alert and notification requests daily.

Technology Analyst Intern May 2021 – July 2021
Morgan Stanley *Bengaluru, India*
- Restructured and redesigned the design pattern, data transformation layers, and data pipelines to facilitate the migration from DB2 to MongoDB for an internal tool, resulting in a 50% optimization of database transactions.

PROJECTS

- **OCR and Text to Speech for Kannada**: Collaborated with RVCE professors on a research project funded by the Dept. of Kannada and Culture, Govt. of Karnataka. Focused on regional language processing. Analyzed and developed a system for OCR and text to speech synthesis in Kannada, leveraging Tesseract and gTTS.
- **Human Recognition and Intrusion Detection System**: Developed a project for '*Fitness Konnect*' to recognize individuals and detect intrusions, utilizing the YOLOv4 model integrated with TensorFlow and OpenCV.
- **Social Distancing Detector**: Developed a system based on pre-trained MobileNet SSD and mathematical algorithms to monitor social distancing within RVCE campus settings, achieving an accuracy rate of 75%.
- **Hostel Management System**: A comprehensive hostel management system using MERN stack, facilitating seamless administration of hostel operations at RV College of Engineering.
- **Spell Checker:** Developed a tool in C++ utilizing the edit distance algorithm and hash maps to identify misspelled words and suggest corrections, processing a file as input.

PUBLICATIONS

Centralized Framework to Send Notifications from Multiple Tools and Services on Multiple Messaging Platforms June 2022
International Journal for Research in Applied Science & Engineering Technology

EXTRA CURRICULAR

- **Employee Volunteer at Cloudera CSR** - Volunteering employee engagement events at local schools and NGOs in Bengaluru, driving impactful initiatives.
- **Core Technical Member at RVCE Coding Club** - Lead and organized hackathons, coding competitions, workshops and technical sessions within the university over three years. Provided mentorship to juniors, preparing them for campus placements.
- **AICTE Activity Point Program** - Volunteered and contributed at several social events at schools and NGOs by creating educational content, proposing solutions, conducting surveys and educating rural people and many more.

ADDITIONAL

- **Certifications & Training**: Coursera certification in Deep Learning and Machine Learning, NPTEL certification in Social Networks.
- **Languages**: Fluent in English, Hindi, Konkani, Kannada.