SHRIKANT KALE

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Software Developer| Python Experience| Machine Learning

WORK EXPERIENCE

Full Stack Engineer| Fleetmetrica Inc., Canada **Mar 2023 – Oct 2023**

- Designed and developed the Fleetmetrica Public Safety Scores web application from scratch using **React, Next.js, Flask, MySQL, Redis and AWS.**
- Contributed to **fleetmetrica-core** library, a critical component for making **RESTful API** calls within project ecosystem.
- Implemented responsive and accessible UI components. Optimized application performance using SSR and SSG.
- Made business logic modifications to make storing, processing and retrieving carrier data TSP (Telematics Service Providers) agnostic using **Python, Bash and SQL** scripting which streamlined the process of on-boarding new customers.

Backend Developer | Centennial College, Canada **Apr 2022 – Dec 2022**

- Architected and developed robust backend services for a medical application using **Django**, implementing **Google OAuth** for secure authentication and **Redis** for efficient task queuing.
- Demonstrated proficiency in **SQL** and **NoSQL** database management. Designed and executed comprehensive unit tests, integration tests, and regression tests, achieving a test coverage of 95 % and reducing bug incidents by 30%.
- Leveraged **AzureDevOps** for version control, CI/CD, and successfully deployed the application on **Heroku**.

Backend Developer | Centennial College, Canada **Jun 2021 – Feb 2022**

- Developed a **Python**-based **Recommender System** as a Machine Learning engineer for an e-commerce company.
- Performed **Data Extraction, EDA**, **Data preprocessing** on the company's historic and current data to build a model using **NLP** and **clustering** techniques and deployed it on a **Linux** Server.
- Noticed 22 % increase in clicks; evaluated using CTR, after integrating of AI capabilities.

Assistant Systems Engineer | Tata Consultancy Services, India **Jun 2019 - Nov 2020**

- Successfully integrated 50+ applications with Identity and Access Management platforms (**Okta** and **Onelogin**) for Single Sign-On and MFA with **SAML, OIDC, OAuth** and reverse proxy protocols.
- Developed custom **JavaScript** and **Python** scripts for enhancements and automation using APIs.
- Moved 60 applications from **OIDC** to **OAuth** Server coordinating with different application owners to reduce license cost.

SKILLS

Programming: Python, JavaScript, Typescript, Java, HTML, CSS, Object-Oriented Programming, Algorithms & Data Structures
Frameworks: React.js, NextJs, Angular, Flask, Django, Node.js, Express.js
Database: MySQL, PostgreSQL, MongoDB, Redis, DynamoDB
Tools: GIT, Docker, Kubernetes, Azure DevOps, Heroku, Linux, Jira
Cloud: AWS, Cognito, ECR, EKS, Lambda, Serverless, CloudFormation, S3, API Gateway, Azure DevOps

EDUCATION

Software Engineering Technology - Artificial Intelligence | Centennial College **Jan 2021 – Dec 2022**
GPA - 4.4/4.5 | **Relevant Courses:** Supervised Learning, Neural Networks, Natural Language Processing and Recommender Systems, Web Development, Mobile App Development, Advanced Database, Data Structure and Algorithms.

Bachelor of Engineering - Computer Science | Sant Gadge Baba Amravati University, India **Jul 2015 - May 2019**
GPA – 7.6/10 | Relevant Courses: Data Structures and Algorithms, Design and Analysis of Algorithms, Database Management Systems, Computer Networks, Object Oriented Programming, Computer Architecture.

ACADEMIC PROJECTS

Chat With Docs (**NextJs, React, AWS S3, DRF, PineCone, OpenAI**)

- Employed Next.js, React, DRF to develop a chatbot designed to facilitate questions & discussions about PDF documents.
- Leveraged **PineCone DB** and **OpenAI** API to intelligently handle document data and facilitate dynamic AI-driven conversations within the context of uploaded documents.

Business Card Scanner (**Cloud Computing – AWS, Python, React**)

- Developed serverless web-based application to extract intended information from business cards using **OCR** and **NER**.
- Used AWS services like **AWS Textract**, and **AWS Medical Comprehend** to implement AI/NLP Capabilities
- Included **AWS Cognito, DynamoDB**, and React JS to create an end-to-end web application

Abstract Sentence Classifier (**NLP – Python, Tensorflow**)

- Experimented with multi-input DL (**CNN & bi-LSTM**) models (Baseline model - **Naïve Baye + TFIDF**) that convert the abstract of research papers into an easily readable format by replicating the architecture mentioned in PubMed paper
- Implemented token level, character level, pre-trained (**TensorFlow-hub**), and positional **embeddings** to compare results.