KEKAYAN NANTHAKUMAR

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EDUCATION

University Of Kelaniya, Kelaniya, Sri Lanka   **Feb 2016 – May 2020**
Bachelor of Science (Hons) in Software Engineering   GPA: 3.89 / 4.0
Domains: Data Science and Engineering, Net-Centric Applications

EXPERIENCE

Pearson, Colombo, Sri Lanka   **Mar 2021 – Present**
Software Engineer at Applied Research & Development Team
- Formulated a pipeline to automatically tag Jira Tickets which 94% Accuracy using **Transformers** library and **BERT** based models in **Python** deployed on **AWS**.
- Implemented a POC to demonstrate LTI launches & gradings from Google Classroom and Microsoft Education in **SpringBoot** with Google and Microsoft APIs.
- R&D on various Cloud architectures and Implementations.
- Researching on Time Series forecasting for user traffic prediction and anomaly detection on Pearson products ELB logs.

Insighture, Colombo, Sri Lanka   **Aug 2020 – Mar 2021**
Software Engineer
- Accomplished 20% more user base on Australian-based **Oho** Platform (implemented in a distributed manner using **Python** and **Nodejs** and the containers deployed in **AWS**) by incorporating NSW WWCC to the platform.
- Productized a fully automated HTML tag annotation in **Python** using **OpenCV** and **Detectron2** to detect heading and paragraph with a mAP of 54%, and annotate relevant *h1, p* tags in web documents, and aid web scrapping

Pearson, Colombo, Sri Lanka   **Sept 2018 – Sept 2019**
Intern Software Engineer at Applied Research & Development Team
- Research on similarity search and Semantic Search from embeddings and Wikipedia Redirects.
- Accomplished various POC for cloud migrations and ML Projects like Anomaly Detection, Image Classification.

PROJECTS

Oho (Skills: **Python**, **Node.js, Flask, Redis, Docker, RabbitMQ**)   **Feb 2021**
- Implemented the backend to facilitate a new state WWCC (NSW) in Australia to the system and open the pathway to add more states in the distributed system. The system achieved 20% more coverage in userbase and live.

local hook (Skills: **Python**, **Flask**)   **Feb 2021**
- Created a CLI app to receive the webhooks in the terminal for local testing and development real-time as a Python Package with python and Flask. The project achieved 2000+ downloads in a short span in PyPI.

CERTIFICATIONS

- **AWS Certified Solutions Architect - Associate**
- **AWS Certified Developer - Associate**

AWARDS AND HONORS

- **4th** out of 106 teams in Data Strom - Data Science Competition   **2020**
- **3rd** out of 250+ participants in CodeZilla Hackathon by Mozilla Club   **2018**
- **2nd** at HackaDev (National Youth Software Competition)   **2017**
- **Winner** Best Photographer Ahasi Art Festival'16 at University of Kelaniya   **2016**

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Scikit-learn, matplotlib), JavaScript (Node.js, React), SQL, Java, Go
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB
Frameworks and Tools: Flask, FastAPI, Django, SpringBoot, Express, Docker, Git, AWS
Machine Learning: Regression, Classification, Clustering, PCA, NLP, RNN, CNN, TransFormers, Pytorch, Keras
Certifications: Machine Learning, Deep Learning (deeplearning.ai)

REFEREES

References will be made available on request