# 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**.
- 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**

## 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