KEKAYAN NANTHAKUMAR

Software Engineer

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Summary

Senior Software Engineer with 2 years of experience in building products from scratch and cloud-native development. Proven ability to design, build, debug and maintain complex software. My core skill set centered around Python, Node.js, and AWS. I am an AWS Certified Developer – Associate and AWS Certified Solutions Architect – Associate. I am passionate about NLP and Serverless and In my work, I am building a next-generation NLP product to review contracts.

Education

B.Sc. (Hons.) in Software Engineering

University of Kelaniya   Feb 2016 - March 2020   Kelaniya, Sri Lanka

- Specialised in Data Science and Net-centric application development
- Attained a GPA of 3.89 out of 4.00, obtaining a First Class.

Experience

Software Engineer

Insighture   March 2022 - Present   Colombo, Sri Lanka

- Led a team of 2 engineers, developing a new product from scratch.
- Designed and implemented a new product from scratch that reviews legal documents using Natural Language Processing and serverless AWS services, which decreased the time to review documents by 80%.
- Created CI/CD pipeline and IAC with AWS SAM & GitHub Action.

Software Engineer

Pearson   March 2021 - March 2022   Colombo, Sri Lanka

- Implemented a time series forecasting service and deployed it in AWS Fargate.
- Implemented a POC to demonstrate LTI launches & gradings from Google Classroom and Microsoft Education in SpringBoot with Google and Microsoft APIs.

Software Engineer

Insighture   August 2020 - March 2021   Colombo, Sri Lanka

- As a lead python backend developer introduced NSW WWCC into the WeareOho platform which increased their coverage by 20% more.
- Developed and evaluated a proof of concept model for detecting and parsing layouts with object detection using PyTorch and Detectron2.
- Wrote a python library to receive webhooks in the terminal.

Software Research Engineer (Intern)

Pearson   Sept 2018 - Sept 2019   Colombo, Sri Lanka

- Pearson is a leading Education provider, offering curriculum materials, multimedia learning tools, and testing programs to help educate people worldwide.
- Collaborated with two other engineers to create the minimum viable product of AI-based Public Speaking Evaluator Service (APSES) while contributing to emotion detection and speech analysis features, using Python, Keras, OpenCV, Kaldi and Flask.
- Research on similarity search and Semantic Search from embeddings.

Certifications

- **AWS Certified Solutions Architect – Associate**
  Amazon Web Services   📅 October 2021   📍 October 2024

- **AWS Certified Developer – Associate**
  Amazon Web Services   📅 December 2021   📍 December 2024

- **Deep Learning Coursera**
  DeepLearning.AI   📅 July 2020

Skills

- **Programming languages** — Python, js, Java
- **Knowledge Areas** — Deep learning (NLP), Cloud (AWS)
- **Frameworks and tools** — Flask, FastAPI, Django, React Pytorch, Transformers, Numpy, Pandas, Springboot, Git, Jupyter
- **DevOps** — Linux, Docker, AWS, AWS SAM, K8S

Achievements

- Placements in Dean's List in all four academic years of B.Sc.
- Awarded as the 4th Place team in the DataStorm 2020 datathon organised by Octave (JKH Centre of Excellence for Big Data Analytics) and University of Moratuwa
- Became the 1st Runner Up team in National Youth Software Competition 2017 organised by UNDP-Sri Lanka.

Last updated: August 17, 2022