

JOEL HANSON

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EXPERIENCE

IBM

Software Engineer

August 2021 – Present

Kerala, India

- Working on IBM's automation foundation platform, where we build intelligent automation platform that is aimed at providing AI/ML and RPA-driven hyperautomation solutions to users who are looking to resolve their challenges and inefficiencies in business and IT processes.
- Leveraged Knowledge in IBM Cloud, Kubernetes, Docker, Kubernetes Operators, GoLang and Bash

Impress.ai (Start-Up)

AI Engineer

September 2018 – August 2021

Singapore

- Implemented tools for shortlisting applicants using machine learning. This is used by one of the well-known schools in Singapore which reduced the time taken to review over 4,000 applications, from 470 hours to just 2 hours, which was mentioned by the Second Minister of Finance Ms. Indranee Rajah in the Singapore Parliament.
- Reduced the time required for releasing the product by 90% using a tool to automate the process of moving required information from one server to another as well as refactored the platform to provide significant optimizations and unit tests were implemented to cover major parts of the platform, resulting in a 29% code coverage.
- Leveraged knowledge in microservices, Functional Programming, Numpy, Celery, Pandas, Pytorch, Model deployment, Data cleaning also implemented CI/CD processes in GitHub Actions, and CircleCI

Travidux Technologies (Start-Up)

Software Engineer

October 2017 – September 2018

Kerala, India

- Implemented an online travel booking portal with the collaboration of Kerala Tourism Development Cooperation (KTDC) and integrated a secure payment gateway for the application.
- Introduced version controlling using git and automated the process of deploying websites using GitLab having continuous integration with code style checks.
- Leveraged Knowledge in Python, Django, Git, Frontend technology Angular 2+, Droplets in Digital ocean, CI/CD processes using Gitlab runners, PostgreSQL, SQL, SQLAlchemy, and primary knowledge in MongoDB, NodeJS and ExpressJS, etc...

EDUCATION

Sahrdaya College Of Engineering

BTech Computer Science

GPA: 7/10

June 2013 – June 2017

Kodakara, Kerala, India

SKILLS

- **Programming Languages:** Python, Javascript, SQL, C, C++
- **Frameworks:** Django, Pandas, Flask, FastAPI, SQLAlchemy, Django Rest Framework, Celery
- **Others:** Git, Docker, AWS, Bash, PostgreSQL

PUBLICATIONS & PROJECTS

Publications:

Survey on Image Processing Based Plant Leaf Disease Detection & Plant Leaf Disease Detection using Deep Learning and Convolutional Neural Network

- A survey was conducted on some of the existing image processing methods for leaf disease detections, in addition, we looked into some of the common machine learning methods and came up with a solution on how to solve the problem using transfer learning. Finally, we came up with a production-ready web application to detect diseases from plant leaf images.

Projects:

Divaa

- An enterprise application that uses machine learning to get valuable insights from any type of document. It has some of the advanced features like document classification, text extraction, entity recognition, creating knowledge graph, etc...