Gurpreet Singh

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Education

Santa Clara University – Santa Clara, CA **June 2024**
Master of Science: Computer Science and Engineering

Amity University – Noida, IN **Aug 2016 – May 2020**
Bachelor of Technology: Computer Science and Engineering; GPA: 3.8/4
Coursework: *Operating systems, Object Oriented Design, Data structures and algorithms, Data Analytics*

Skills Summary

- **Languages**: JavaScript, Python, MySQL,JSONSchema, Django
- **Web Development**: Node JS, DB, APIs, Unit and integration tests, React, Microservices, Web design principles
- **Developer Tools**: Git, Github, Azure Cloud, Postman, Linux operating system, VS, Task prioritization
- **Soft Skills**: Team player, Motivated, Adaptable, Initiative taker, Flexible to changes, Detailed oriented
- **DevOps & Cloud**: Docker/Kubernetes, Jenkins, CI/CD pipelines, Infrastructure as a Code(YAML), Microsoft Azure
- **Others**: Product development process ceremonies, Peer code review, Technical design documentation

Professional Experience

Hanu Software – Noida, IN **June 2020 – August 2022**
Senior Cloud Software Developer

- Collaborated with software development team to meet end-user product requirement of re-design, re-building and enhancements of monolithic healthcare revenue web application to scalable, service oriented application which ensures, stability, and security; Extracted and implemented legacy services into independent micro-services using best practices and well-documented REST-ful APIs; Implementation of solution removed the tight coupling by 80% and flexible customer-facing features development
- collaborated with a deployment team of 5 to designed, built, and configured CI/CD pipelines to sustain high productivity levels using best deployment techniques. Load-based horizontal/vertical scaling of K8's pods/Nodes; Setup reverse proxies using Nginx; Implementation resulted in 99.9 % application availability and 100% end-user satisfaction

South Side Medical Services – Noida, IN **Jan 2020 – April 2020**
Software Developer Intern

- Collaborated with team of 7 to train complex Artificial Intelligence models for classifying pharmacy patients with low adherence level based on the custom metric (Medical Possession Ratio). Implemented python script for data augmentation; gathered and parsed over a million record of JSON drugs' data from 'OpenFDA' API endpoint
- Performed EDA, features selection, features computation; Resulted in increase in model evaluation metric by 45%

High Performance Cloud Computing Center, UTP, – Perak, Malaysia **May 2019 – July 2019**
Deep Learning Research Assistant

- Investigated and implemented an innovative Neural Network model as a surrogate for meta heuristic algorithm to solve the problem of time complexity of expensive genetic algorithm's fitness function with 92.5% accuracy

Projects

Jeweller's Munim – Jewellery Software *(.Net Core(Backend), C#, React, Rest APIs, Azure)* **May 2022 – Present**

- Developed secure, efficient, observable and scalable Jewellery portal in cloud-connected platform to address real-time problem of manually maintaining jewellery's accountancy, stock, customers' details and gold loan.

Attendance Application using Facial Recognition *(Python, Qt-Designer, Machine Learning)* **June 2021**

- Developed desktop based attendance application with feature of clock in and clock out; Detects the facial features using CNN and classify them using linear classification model. Resulted test accuracy was found to be 95.12%

Skin Cancer Detection Mobile Application Using CNN with Transfer Learning *(Python)* **Jan 2020 – May 2020**

- Implemented CNN with transfer learning to detect the position and classify the skin cancer into three categories – Melanoma, Dermatofibroma, and Benign Keratosis lesions
- Implemented and trained Inception model with transfer learning on the three categories of skins cancer images in HAM10000 data set which results in test accuracy of 97.5%

Leadership / Extracurricular/ Publications

- Runner's Up at Hanu Cloud Hackathon 2021 (Second Place) **June 2021**
- Research Paper: Hybrid Prediction Model for Rainfall Forecasting, *IEEE Explorer* **Jan 2019**
- Dell Campus Ambassador **Jan 2018 – Jan 2019**