Prateek Parab

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SUMMARY

Focused, quick-learning and hardworking professional with superior multi-tasking abilities, high adaptability and pro collaborator qualities. Delivering value.

EXPERIENCE

Software Engineer, EAGL Technology - Albuquerque, NM Jul 2019 – Present

- Successfully implemented a mobile app using Xamarin (C#) and Firebase cloud messaging platform.
- Deployed an integration server on cloud using Asp.net, RESTful API's implementing design patterns to maximize efficiency and avoid code repetition.
- Devised an algorithm to read inputs from multiple IOT devices using Python, RESTful API's, SQL and parallel processing to run 20+ devices with latency as low as 200 milliseconds and deployed it as a microservice.
- Built a real-time weapon detection system using machine learning, Google cloud ML services and Python.
- Built an NFC mobile app (iOS/Android) using Xamarin (C#), Asp.net and MVC framework. Link: Cityweb app
- Implemented an efficient triangulation algorithm with an accuracy of 99.998% in Python and integrated with Google maps API.
- Built a desktop notifier using C#, RabbitMQ and deployed the RMQ server in a Digital Ocean droplet(cloud).
- Built a media server using Opencv-python, Flask supporting various streaming protocols, low latency with multiple streams.
- Architected and built a JWT auth server using ASP.net, RESTful API's, SQL for a secure interface to all other applications.
- Deployed the Authentication server and media server on cloud and connected to a remote PostgreSQL db.
- Migrated company's proprietary IOT sensor code from C to Golang and optimized the same for high performance.
- Evaluated every line of code with Unit testing incorporating NUnit framework and unit and integration test in python.
- Made use of tools like Jira, Git, Jenkins and Docker.
- Deployed a Key mgmt. portal in Flask, JavaScript, Ajax, jQuery and deployed it as a microservice on Docker.

Software Development Intern, Ubees Inc. - New York, NY Jul 2018 – Jan 2019

- Developed a cross platform app in React Native with app size (< 40 MB)
- Built an efficient tracking algorithm in android.
- Implemented web services using REST API.
- Captured and stored Real time sensor data in MongoDB with backend in node.js.
- Successfully migrated data from MongoDB to PostgreSQL.

Software Development Intern, Larsen & Toubro – Mumbai, India Dec 2016 - Jan 2017

- Implemented progressive web app using. Node.js, html, JavaScript.
- Developed an interactive chatbot using Microsoft QnA maker api.
- Developed a chatbot using Dialogflow and deployed on Facebook.

SKILLS

Technologies:	Python, Java, C#, JavaScript**,** React, Node.js, HTML5, CSS, Bootstrap, Git, Mongo, Bash, MySQL, AWS, Django**,** Flask, PostgreSQL, Docker, Golang, Jira, GCP , Firebase, Portainer.
Operating systems:	Windows, Linux, Raspbian.
Tools:	Eclipse, Spyder, Postman, Jupyter notebook, VS code, Android studio, MS Project, Xcode.

EDUCATION

Illinois Institute of Technology, Chicago, IL Aug 2017 - May 2019
Master of Computer Science
Coursework: Algorithm's, Big data, ML, Project mgmt, App devt., Web apps., Computer vision

Mumbai University, Mumbai, India Jul 2013 - Aug 2017
Bachelor of Engineering in Computer Science
Coursework: Theory of Computation, Data Structures, Operating systems, Computer networks

PROJECTS

Chat application: April 2019

- Developed a chat application using Node.js and socket.io.
- Front-end developed using Express framework.
- Real time notification of the message along with the username
- Added the functionality for multiple socket creation for multiple users.

Deep learning object classification using Back propagation Feb 2019

- Implemented pre-processing operations such as reshaping, flattening and created an image vector.
- Built 2 models i) A 2-layer neural net ii) L-layer deep neural network.
- Implemented forward and back propagation from scratch in Python and generate trained parameters.
- Used trained parameters to predict labels and achieved 90% accuracy.

Implementation of facial recognition with transfer learning Aug 2018 - Dec 2018

- Developed a neural net from scratch using Python, Tensorflow and Keras.
- Performed data transformation and loading on the dataset from Kaggle.
- Trained the neural net for those datasets and calculated precision, recall, accuracy.
- Implemented transfer learning and achieved higher accuracy by accurately tuning hyperparameters.

CERTIFICATIONS

- Neural networks and Deep learning, Natural language processing, Machine learning (recommender systems)
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization.
- Full stack web development, Blockchain essentials, Tableau