Prateek Parab

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SUMMARY

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

EXPERIENCE

Software Engineer, EAGL Technology - Albuquerque, NM   Jul 2019 – Present
- Built a real-time weapon detection system using Trueface api and cloud ML services, Python.
- Built an NFC mobile app using Xamarin(C#) with mfa capability and backend in Asp.net.
- Implemented an efficient triangulation algorithm in Python and integrated with Google maps api.
- Built a desktop notifier using C#, RabbitMQ to send data to the client machine.
- Implemented JWT authentication using C# and created a WebRTC alternative using Opencv-python and Flask.
- Deployed the Authentication server and media server on cloud and connected to a remote PostgreSQL db.
- Migrated company's proprietary IOT code from C to Golang.
- Tested every line of code with Unit testing incorporating NUnit framework and unit and integration test in python.
- Exploited tools like Jira, Git, Jenkins and Docker.
- Dockerized the python code implementation.
- Created a Key mgmt. portal in Flask and deployed it on Google cloud platform(GCP) and digital ocean.

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, HTML5, CSS3, Bootstrap, Git, Mongo, Bash, Node, MySQL, AWS, Django, Flask, PostgreSQL, Docker, Golang, Jira, GCP.
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.

Stock market web application project:
- Implemented a stock market web application from scratch using Java, Apache tomcat web server.
- Functionalities of the project include, buying and selling real time stocks, parsing data from live json, auto fill features, graphical analysis for stocks bought.
- Project data operations implemented on MySQL database.

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