

PrateekParab

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SUMMARY

Focused, quick-learning and highly technical professional with superior multitasking abilities, high adaptability and pro team player qualities with excellent communication skills. Delivering value.

EXPERIENCE

Software Engineer, EAGL Technology - Albuquerque, NM	Jul 2019 – Present
<ul style="list-style-type: none">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 and object-oriented design 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 frameworks. Link: Cityweb appImplemented 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 highly scalable 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.Exploited 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
<ul style="list-style-type: none">Developed a cross platform app in React native with app size (< 40 MB)Built an efficient tracking algorithm utilizing location services using Java in android studio.Implemented highly scalable endpoints using express framework in Node.js.Captured and stored RT sensor data in MongoDB.Successfully migrated data from MongoDB to PostgreSQL to support ACID properties.	
Software Development Intern, Larsen & Toubro – Mumbai, India	Dec 2016 - Jan 2017
<ul style="list-style-type: none">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#, C++, JavaScript, React, Node, HTML5, CSS, Bootstrap, MongoDB, Pytorch, Node.js, SQL, AWS, Django, Flask, PostgreSQL, Docker, Golang, Jira, GCP, Firebase, Redis, .
Tools:	Eclipse, Postman, Jupyter nbk, VS code, Android studio, MS Project, Xcode, Portainer, Git.

EDUCATION

Illinois Institute of Technology, Chicago, IL	Aug 2017 - May 2019
Master's in Computer Science	
Coursework: Algorithm's, Big data, ML, Distributed Systems, Mobile app dev, Web apps, Image processing.	
Mumbai University, Mumbai, India	Jul 2013 - Aug 2017
Bachelor's in Computer Science	
Coursework: Theory of Computation, Data Structures, OS, Computer networks, OO programming, AI.	

PROJECTS

Dockerized Node.js application:	Sept 2020
<ul style="list-style-type: none">Developed a highly scalable in memory movie genre database.Created endpoints with CRUD operations using express framework implementing the concept of promises.Created a dockerfile with base image as node, performed necessary port mappings, used git for version control.Used Postman to test all the resp. scenarios and deployed the project on docker registry.	
Deep learning object classification using Back propagation	Feb 2019
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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

<ul style="list-style-type: none">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	
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