Amit Pandey

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SKILLS

- Languages: C, C++, Java, R programming, R package development, Python, Pandas, MATLAB, Swift, iOS.
- Web and mobile/frameworks: JavaScript, HTML, CSS, Angular JS, React JS, JSP, JSTL, Servlets, React Native, Firebase.
- Source Control: Git, Git Flow.
- Database: MySQL, NoSQL (MongoDB, DynamoDB).
- Collaboration and Software Techniques: Taiga, Agile software methodology, Scrum, Microservices, Design Patterns, MVC, UML notation, Software Development Life Cycle (SDLC).
- Artificial Intelligence/ Machine Learning: Neural Networks, K- Nearest Neighbors, Support Vector Machines (SVM), text recognition.

WORK EXPERIENCE

Developer (Intern), Design my Trips, (Remote, USA) — Jan 2021- Present

- Creating a mobile application, a dynamic travel itinerary application on React Native.
- Designing the flow of the application and using Firebase for authentication.

Developer, BostonApartments.com, (Remote, USA) — Aug 2020- Dec 2020

- Developing and Maintaining bostonapartments.com website as Final Capstone Project.
- Lead the team in scrum meetings and managed standups.

Intern, Indian Railway Catering and Tourism Corporation (IRCTC), New Delhi — Jun 2017 –Jul 2017

- Studied and designed a ticketing model on Java programming using database connectivity
- Suggested machine learning methods for IRCTC application for weather prediction.

PROJECTS

- App for visually challenged using **TensorFlow** Detection, Arizona State University — Jun 2019- Aug 2019
  - o Designed an android app for visually challenged people by integrating **TensorFlow** in the app to identify objects and notify the person using the application on Android platform.
  - o Integrated the voice readout function using the inbuilt functions to invoke preferences and successfully completed the app.
- Created robot simulation, Arizona State University. — Jan 2020 - May 2020
  - o Produced the simulation on **Unity 3D** where the robot completed the dynamically generated maze using **neural networks**. Used C# scripting at the backend.
  - o Generated a random 6 X 6 or 9 X 9 maze and of high or low complexity depending on user preference.
  - o Automated the robot with virtual sensors like LIDAR sensor which stored the image of maze visited so far and used the data to train itself for best optimal path.
- Designed a web application, Arizona State University — Aug 2019 – Dec 2019
  - o Programmed web application similar to scratch.mit.edu named 'doodlemath' on ReactJS which enabled students to learn math graphically.
  - o Designed 2 views in the application, instructor and student view, students could do their assignment and instructor could grade and assign the work.
  - o Led the team of 5 as scrum master for most of the project.
- Chat Application. — Jun 2020 – Aug 2020
  - o Programmed a chat application on ReactJS, NodeJS, Socket.io, employing React for front end, NodeJS and Socket.io on backend.
  - o Streamed the chat data to using SocketIO and successfully created the instantaneous chat like any other instant messaging service.
- Spring microservices (Restful API). — Jun 2020 – Aug 2020
  - o Executed spring microservices calls as project using spring boot.
  - o Used a movie database and successfully hit the query with Restful API. Used spring.io to create the Java Package for API.
- iOS Application, Arizona State University. — Jan 2020 – Jun 2020
  - o Created an iOS Application to calculate the great circle distance and get and store the data of the locations using Core Data.

PUBLICATIONS — Jan 2016 - Jun 2017

- Amit Pandey, Achin Jain, "Comparative Analysis of KNN Algorithm using Various Normalization Techniques", International Journal of Computer Network and Information Security (IJCNIS), Vol.9, No.11, pp.36-42, 2017.DOI: 10.5815/ijcnis.2017.11.04.
  - This research was based on KNN algorithm using **R programing language** and I found out the most optimal existing Normalization technique to scale down the data and cluster it with given parameters (**As of now the paper has been cited 13 times in publications and a PhD thesis concerning institutions like Georgia Tech, University of Windsor**).

CERTIFICAIONS

Coursera - Duke University Web Dev Certification license number: 7X96F3ZQMPPV — Feb 2016

EDUCATION

Master of Science in Software Engineering — Dec 2020

Arizona State University, USA.

Bachelor of Technology in Information Technology — Jun 2018

Guru Gobind Singh Indraprastha University, New Delhi, India.