Amandeep Singh **Saini**

FULL-STACK DEVELOPER · SOFTWARE ENGINEER · WEBSITE DEVELOPER

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Summary

- Experience in Full-Stack development with profound knowledge of modern Web-Application Technologies like Django , Flask and React.js
- Experience in both Front-end & Back-end Development for Web Applications
- Developed & designed multiple Ecommerce and Management websites for various companies & clients.
- Completely focused, detail oriented & motivated individual with extensive analytical skills.
- Proficient in Python, JavaScript,HTML5, CSS6, relational databases(PostGreSQL, MySQL) and Front-End & Back-End programming languages.

Education

W.S.U (Washington State University, Pullman)   *Washington, USA*

M.Sc. IN COMPUTER SCIENCE (DATA SCIENCE)   *Jan. 2018 - May. 2020*

- Major in Data Science with 3.5/4.0 GPA.

BITR (Bhilai Institute of Technology, Raipur)   *Chhattisgarh, India*

B.E. IN ELECTRONIC AND TELECOMMUNICATION   *Jun. 2012 - Jul. 2016*

- Graduated with major in Electronics and Telecommunication with average of 76% overall.

Work Experience

Graduate Full- Stack Developer (Research-Assistant Intern)   *Washington, USA*

SMART GRID DEMONSTRATION AND RESEARCH INVESTIGATION LAB | WASHINGTON STATE UNIVERSITY   *January 2020 - May 2020*

- Developed two data visualization tools through open source web application Framework (Flask app) and Plotly (Dash) as the included libraries for visualization in web application. First Data visualization tool is SynchroPhasor Anomaly And Event Detection & second is Cyber-Physical Security Assessment Metric through resiliency.

Web Developer (Intern)   *Washington, USA*

INTO WASHINGTON STATE UNIVERSITY   *August 2019 - December 2019*

- Developed a dynamic and interactive website for the International Program of Washington State University. After deployment the traffic increased on websites by 40% from usual traffic and website had more simplistic and interactive design.

Instructional Technological Assistant (Intern)   *Washington, USA*

ACADEMIC OUTREACH & INNOVATION | WASHINGTON STATE UNIVERSITY   *January 2019 - May 2019*

- Engaged with production coordinators for the successful implementation and deployment of course content through learning management systems (Angel, Blackboard learn). That inhibits responsibilities likes adding graphic design, formatting course contents into HTML pages and much more.

Lead Web Developer & Project Head   *Chhattisgarh, India*

PARAMOUNT TECH SOLUTIONS & SERVICES PVT. LTD.   *June 2016 - December 2017*

- Developed & designed multiple Ecommerce, Business oriented and managerial websites. Moreover, played a vital role of planning, coding and adjusting websites, from format to operate and concurring to a client's details. Endeavor to form outwardly engaging locales that include user-friendly plan and clear route.

MATLAB Application Developer Intern   *Chennai, India*

U.N.I.Q TECHNOLOGIES   *June 2015 - July 2015*

- Developed MATLAB Applications and Created new web-based features for support of MathWorks applications. While, integrated newly developed application with newer technologies through interaction of internal support system.

System Engineer Intern   *Chhattisgarh, India*

NETRATVA TECHNOLOGY   *July 2014 - August 2014*

- Developed and deployed software's for the various embedded systems and devices that inhibits 8051 Micro-controller. Moreover, responsibly operated and monitored embedded devices and systems for stability and efficiency with real-life implementations.

Projects

Comparative Analysis of Dynamic Routing Protocols(RIPv2, OSPF, EIGRP)   *Washington, USA*

WASHINGTON STATE UNIVERSITY (COMPUTER COMMUNICATION NETWORKS)   *May 2020*

- Performed comparative Analysis of dynamic routing protocols through real time simulator (Cisco Packet Tracer). While delivery of routing information was evaluated in Real-time with each individual protocols and combined protocols.

Sales Trends in Video Games Industry: An Exploratory Data Analysis *Washington, USA*

Washington State University (Machine Learning) *Dec. 2019*

- Performed exploratory data analysis & implemented machine learning algorithms in the gaming data set 2019 collected from kaggle. Moreover, implementation of multiple algorithms provided Prediction & Accuracy of algorithmic model on data for identification of the trends and outliers.

Created Website for International Program *Washington, USA*

INTO W.S.U Website (Washington State University) *Dec. 2019*

- Created administrative website for International Program of WSU (INTO WSU) as well as maintaining website. Back-end implemented on PHP with front-end designed through JavaScript, HTML and CSS. Moreover, website compiled accordingly with clients need for easier User Interface.

Network Similarities Measures Through Ranking Method *Washington, USA*

Washington State University (Network Science) *Mar. 2019*

- Various networks of huge datasets were computed,and similarities were obtained from those networks based on the ranking methods (ISO and NSD). In which, we obtained NSD supported a much faster similarity-based ranking as compare to every other method.

Conflict detection and Management of traffic through Graph colouring *Washington, USA*

Washington State University (Graph Theory) *Nov. 2018*

- Implementation of Four-Colour algorithm for construction of effective Traffic Managerial system for congestion solution for major urban Cities around countries. Meanwhile, efficiently detection of congestion on effectively denser corners of graph were obtained with problem solution.

Gaming Behavioral Prediction Through Quantum Algorithm *Washington, USA*

Washington State University (Data Science) *Nov. 2018*

- Insights of gaming analytic were used to obtain the specific knowledge of what the player wants, to predict the gaming bottlenecks, reasoning, and timing. New game concepts, story lines, and mechanics are designed using the data acquired from previous gaming data-sets with a twiddle of Quantum algorithm migration.

Ear Recognition Using Geometric Features(MATLAB Programming) *Chennai, India*

U.N.I.Q Technologies *Jun. 2015*

- Successful algorithmic implementation of ears detection for knowledge extraction for Authenticating Bio-metric Systems through MATLAB programming from Digital Image processing package. Moreover, constructively gathered ear images for product and deployed for Biometric Authentication.

Fire Detection and Monitoring through Videos(MATLAB Programming) *Chennai, India*

U.N.I.Q Technologies *Jun. 2015*

- Constructively implemented algorithm for fire detection through color combination on continuously fluctuation in color codes of images. Meanwhile, deployed system in various smart security systems for household use.

Creation of 8051 development board(Embedded System) *Chhattisgarh, India*

Netratva Technologies *Aug. 2014*

- Developed and created embedded system board with 8051 Micro-controller and programmed micro-controller with C Programming Language for successful deployment.

Skills

Programming Languages : Python. R-language, HTML, CSS, JavaScript, PHP, MATLAB, Node.Js, React.Js.

Cloud Technologies : Microsoft Azure, Amazon Web Services(AWS).

Library Packages : Pandas, Numpy, Pytorch, Scikit-learn,Keras, Matplotlib.

Technologies & Tools : Angular.js, Bootstrap, Ajax, WordPress, NoSQL, Hive, Apache Hadoop, Presto, MongoDB, PostgreSQL, MySQL.

Academic Courses : Machine Learning, Data Science, Advance Algorithms,Big Data, Graph Theory Numerical Analysis, Network Science

Extracurricular Activity

Defence Ministry Of India (Air-force) *Bhilai, India*

NCC (National Cadet Corp) Air Wing *Jun. 2007 - Jun. 2009*

- Reformed the society by performing community services and helping people on weekends
- Drove Airplane twice with captain for being a member of national cadet corp in Air-wing of Indian army