

Amandeep Singh Saini

FULL-STACK DEVELOPER · SOFTWARE ENGINEER · WEBSITE DEVELOPER

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Summary

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

Education

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

M.SC. IN COMPUTER SCIENCE (DATA SCIENCE)

- Major in Data Science with 3.5/4.0 GPA.

Washington, USA

Jan. 2018 - May. 2020

BITR (Bhilai Institute of Technology, Raipur)

B.E. IN ELECTRONIC AND TELECOMMUNICATION

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

Chhattisgarh, India

Jun. 2012 - Jul. 2016

Work Experience

Full- Stack Developer (Intern)

SMART GRID DEMONSTRATION AND RESEARCH INVESTIGATION LAB | WASHINGTON STATE UNIVERSITY

- 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.

Washington, USA

January 2020 - May 2020

Web Developer (Intern)

INTO WASHINGTON STATE UNIVERSITY

- 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.

Washington, USA

August 2019 - December 2019

Instructional Technological Assistant (Intern)

ACADEMIC OUTREACH & INNOVATION | WASHINGTON STATE UNIVERSITY

- 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.

Washington, USA

January 2019 - May 2019

Lead Web Developer & Project Head

PARAMOUNT TECH SOLUTIONS & SERVICES PVT. LTD.

- 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.

Chhattisgarh, India

June 2016 - December 2017

MATLAB Application Developer Intern

U.N.I.Q TECHNOLOGIES

- 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.

Chennai, India

June 2015 - July 2015

System Engineer Intern

NETRATVA TECHNOLOGY

- 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.

Chhattisgarh, India

July 2014 - August 2014

Projects

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

WASHINGTON STATE UNIVERSITY (COMPUTER COMMUNICATION NETWORKS)

- 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.

Washington, USA

May 2020

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