

Amandeep Singh Saini

FULL-STACK DEVELOPER · SOFTWARE DEVELOPER · WEBSITE DEVELOPER

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Summary

- **Full-Stack developer with 3+ years of experience** in technology stack (ReactJS, ExpressJS, NodeJS, Flask APP and Django.)
- Hand-on experience with AWS (EC2, S3) and relational databases like MySQL, SQLite, Postgres, Firebase and MongoDB .
- **Development experience of 3+ years** with services like RESTful API, Microservices, Object-Oriented, Design Pattern.
- Have extensive development skills, strong attention to details and a significant ability to work in a team environment.
- Hands on experience in designing and implementing modern micro technical services, migrated these micro services to cloud, and used them to support building highly interactive web applications
- Highly proficient in Python, Java, JavaScript,HTML5, CSS6, and have solid understanding of Algorithms, Data Structures, and Object-Oriented Concepts.

Education

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

M.Sc. IN COMPUTER SCIENCE

- GPA : 3.5/4.0

Washington, USA

Jan. 2018 - May. 2020

BITR (Bhilai Institute of Technology, Raipur)

B.E. IN ELECTRONIC AND TELECOMMUNICATION

- Major in Electronics and Telecommunication with average of 76 percentile.

Chhattisgarh, India

Jun. 2012 - Jul. 2016

Skills

Programming Languages : Node.Js, React.Js, Angular.Js, Python, HTML, CSS, JavaScript, PHP.

Cloud Technologies : Amazon Web Services(AWS), FireBase MySQL, MongoDB PostgreSQL.

Frameworks: NodeJS, Django, Flask-APP, ExpressJs

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

Work Experience

Full- Stack Developer

SMART GRID DEMONSTRATION AND RESEARCH INVESTIGATION LAB | WASHINGTON STATE UNIVERSITY

- Developed a Smart Grid visualization applications using ReactJs, NodeJs, Bootstrap 4, and Sass for which allowed users to visualize, and obtain Resiliency metrics from smart grid data. Moreover, designed relational databases, created APIs and integrated them.
- Implemented a new analytical Visualization experience using client-side Sass, JavaScript and server-side EJS also performed A/B testing to track engagement using Google Analytic.

Washington, USA

January 2020 - May 2020

Web Developer

INTO WASHINGTON STATE UNIVERSITY

- Developed a dynamic and interactive website for the International Program of Washington State University. After deployment of website on server traffic increased on websites by 40% from usual traffic and website had more request module than usually.
- Developed a critical web reader application which was redesigned by the UX designers for better user experience by using latest technologies. Refactoring PHP legacy server and web hosting to a new provider.

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

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

SynchroPhasor Anomalies and Event detection

Washington, USA

WASHINGTON STATE UNIVERSITY (SMART GRID DEMONSTRATION AND RESEARCH INVESTIGATION LAB)

May 2020

- Developed a anomaly detection and event detection tool with with aim to visualize and detect/classify SynchroPhasor events and anomalies in the transactive energy system of the power grid.
- Moreover, constructed the visualization tool with the back-end as the NodeJs and front-end through ReactJs technology stack.

Cyber-Physical Security and Resiliency Metric

Washington, USA

WASHINGTON STATE UNIVERSITY (SMART GRID DEMONSTRATION AND RESEARCH INVESTIGATION LAB)

Dec. 2019

- Developed a Resiliency metric calculator with with aim to visualize and detect/classify resiliency score and Security metric in the transactive energy system of the power grid for Cyber attacks.
- Moreover, constructed the visualization and Metric tool with the MERN (Mongo,Express,ReactJs and NodeJs) as the technology stack.

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.

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.

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.