Suraj Punjabi

(614) 209-8256 | surajpunjabi28@gmail.com | linkedin.com/in/surajpunjabi/ | github.com/surajp28/

EDUCATION

Indiana University, Bloomington, IN
Masters Of Science in Computer Science *December 2022*
University of Mumbai, Mumbai, India
Bachelors of Engineering in Computer Engineering *May 2018*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript
Web Technologies/Frameworks: React, Spring Boot, Hibernate, HTML, CSS, JUnit
Tools: Jira, Bamboo, GitHub, Docker, Kubernetes, Jenkins, JMeter, Linux
Databases: MongoDB, MySQL

PROFESSIONAL EXPERIENCE

ITIVITI Pvt Ltd, Mumbai, India
Software Engineer *August 2019- December 2020*
- Designed, developed, and deployed 5 non-FIX protocols and was responsible for maintaining, improving, and upgrading 20 non-FIX protocols supported by stock exchanges like Nasdaq, Euronext, CME, CBOE, Aquis, and MEMX.
- Collaborated with other teams to enhance the automation system (CTT), which increased the test case coverage by 30% using Java, Wireshark, HexEditor, and TBricks.

ITIVITI Pvt Ltd, Mumbai, India
Associate Software Engineer *August 2018- August 2019*
- Designed and developed a parser compatible with VeriFIX, an application that is used by Tradeweb Markets Inc to simulate real-time market data flow.
- Performed UAT and provided constant support along with XML scripting to enable Tradeweb Markets Inc to automate their manual testing system.
- Worked on multiple enhancements and bug fixes using Java which were tested using Junit framework ensuring maximum throughput with minimal errors.

ACADEMIC PROJECTS

Blood Bank Management System *July 2021- August 2021*
- Created an educational project to track blood availability at the blood bank using Java and Spring Boot.
- Implemented microservices to ensure if the user is eligible to donate or receive blood and notify the admin if the blood availability reaches the specific minimum or maximum value.

Photo Gallery *January 2021- May 2021*
- Created a scalable, fault-tolerant, and cloud-based web application for photo sharing and storage that can process more than 1000 concurrent requests per instance.
- Using ReactJS for frontend and Java, Python, and TypeScript for microservices, the architecture was deployed on a custom Kubernetes cluster created over OpenStack-based IU Jetstream Cloud.
- Implemented CI/CD using Jenkins and automatic cluster deployment using ANSIBLE.

Heart Disease Diagnosis *August 2017- February 2018*
- Created a neural network-based system that takes 13 attributes of a patient and predicts whether the patient is suffering from heart diseases on GNU Octave.
- Trained the multilayer perceptron algorithm with a backpropagation network using the sigmoid activation function.
- With 13 neurons in the input layer, 13 neurons in the hidden layer and one neuron in the output layer the system achieved a maximum accuracy of 84.9%.

PUBLICATIONS

- Roygaga C, **Punjabi S**, Sampat S, Sarode T.K. (2018). Heart Disease Detection: A Neural Networks Application. International Journal of Engineering Science Invention(IJESI), 7(7), 07-11
- Roygaga C, **Punjabi S**, Sampat S, Sarode T.K. (2018). Diagnosis of Heart Disease Using Neural Networks. i-manager's Journal on Information Technology, 7(3), 24-29