MANDEEP SINGH
Email: mandeep091092@gmail.com Ph No: +1(587)973-8102
Linkedin: www.linkedin.com/in/332mandeep
Github: https://github.com/332mandeep

Career Summary

- 5+ years of experience in the domain of electricity distribution with electric utility department of Government of Punjab state of India (**PSPCL**).
- 2 years of work experience in the domain of manual and automated software testing with Python, Selenium, Robot Framework.
- Experience in **Analysis, Design, Development, implementation**, Testing, Production and Maintenance Methods using Waterfall and Agile/SCRUM.
- Understanding of cloud computing concepts gained through hands on experience.
- Intermediate experience with front end web development using HTML, CSS, and, JavaScript and also familiar with the **React** framework.
- Experience in planning, designing, maintenance and estimating of HV (11 KV) and LV (440 V) electricity distribution network.
- Experience in operating billing software like **SAP and CRM.**
- Experience in operating automation software **Spectrum Power 4** of Siemens Ltd for controlling and monitoring 66 KV Substations.
- Possess strong analytical and problem-solving skills with the ability to adapt to a new environment and meet stringent deadlines. Possess a flexible & detail-oriented attitude. A team player with excellent technical, communication, and leadership skills.

Technical Skills:

- **Programming Languages**: **Python, JavaScript, HTML, CSS,** and basics of JAVA
- **Tools: Azure, GitHub, Matlab, Autocad**, **SAP**, JIRA, CRM, Spectrum Power 4**,** Sematic Manager, RS Logix 500, Wonderware, Windows, **Microsoft Office 365 (Word, Excel, Power Point)**

Education

Master of Engineering – Electrical & Computer Engineering – (Pursuing)   **Fall 2022**
University Of Calgary, Calgary, AB, Canada

Bachelor of Technology – Electrical Engineering   **July 2015**
Punjab Technical University, Punjab, India

Professional Experience

Punjab State Power Corporation Limited   **2016 –Aug 2022**
Jalandhar, Punjab/India
(PSPCL is the electricity generating and distributing company of the government of Punjab state in India.)

Junior Engineer IT (SCADA) (Supervisory Control and Data Acquisition)   **Jan 2021 – Aug 2022**

- Responsible for testing the GUI and functional testing of web application.
- Involvement in Test Design includes Test Data preparation and reviews.
- Prepare and configure the test environment as per requirements.
- Ensure that all aspects of testing, such as manual execution, functional, regression, system testing, stress/load teasing and performance are completed.
- Test different types of devices (Desktop, Laptop) for Usability concerns of the end user.
- Providing feedback and reporting bugs and issues regarding the annotation software to the QA team.

Junior Engineer (Distribution)   **2016 – Dec 2020**

- Providing prompt, efficient, detail-oriented customer service to PSPCL customers'.
- Providing technical support to customer via inbound and outbound phone calls, chat help and emails.
- Experience in designing and making estimates for laying of both HV and LV electricity distribution network along with prefeasibility analysis.
- Responsible for providing uninterrupted electricity supply to consumers.

- Ensuring proper operation and maintenance of power line(both conductor and cables) HV (11 KV) and LV (440 V) and also of distribution transformers (10 KVA to 1 MVA).
- Responsible for drawing material and distribution transformers from store and maintaining a record of it in excel as well as PSPCL web portal.
- Responsible for supervising a team of 10 and assigning duties through duty rosters'.
- Responsible for issuing new electricity connections and maintaining their records.
- Using **SAP** and **CRM** software for starting billing of new connections as well as making amends.

Kalsi Metal Works Pvt. Ltd.   Dec 2014 – May 2015

QA Trainee Engineer
- Responsible for GUI and Functional Testing, using Black box Testing Techniques.
- Created detailed Test Cases by analyzing the Business/Functional requirements and actively participated in process improvements.
- Prepare and configure the test environment as per the requirements.
- Providing feedback and reporting bugs and issues regarding the software application to the QA team.
- Represent the QA team in software design discussions.
- Involved in execution, modification of test cases and bug verification.

Prolific Systems and Technologies Pvt. Ltd.   May 2013 – July 2013

Trainee Engineer
- Got familiarized with programming PLC of **Allen Bradley (Micrologix-1000)**
- Learned to program PLC of **Siemens (S7-300)** and Operated on SCADA tool **Wonderware.**

Achievements and Certificates

- Microsoft certified **Azure Fundamentals** certification (November 2022)
- Certificate of excellence for completing Data Structures and Algorithms in Python awarded by Coding Ninjas. (May 2022)
- Awarded by **Chief Engineer, DS North Zone**, PSPCL for overall **conduct and services** rendered on the occasion of Republic Day of India (26th January 2022)
- Reduced **T&D losses** of our Subdivision.
- Successfully lead a team of 20 for **Implementation and Operationalisation of SCADA** in Jalandhar, Punjab a time-based project directly funded by the **Government of India.**
- **Programming for Everybody** and **Python Data Structures Certificates** issued by Coursera taught by **University of Michigan.**
- **1 st prize** winner in "**SIXTH SENSOR**" event during Techniti 2013 held at National Institute of Technology,Jalandhar.
- 2 nd prize Winner in "AUTOMANIA" event during Techniti 2013 held at National Institute of Technology,Jalandhar.
- Introductory level certification in PLC and SCADA Automation.
- Introductory level certification in AUTOCAD.
- Certification of participation in Core Java workshop organized by DUCAT.

Projects

- Personal portfolio website using ReactJs.
- Optimization of an Off-Grid Hybrid Renewable Energy System based in Nunavut, Canada using Gurobi library of Python.
- RF-Id based Temperature monitoring system using Arduino microcontroller EM-18 RFID Module.
- Power Line Carrier Communication using 8086 microprocessor.
- 2048 game using Tkinter python library.
- Front-end website of a pet startup.