

PROFILE

- Lead software programming initiatives to improve processes in business, organizational, and operational areas.
- Have strong communication skills, analytical and problem-solving skills, ability to work independently, and a strong focus on quality and cost-saving.
- Strong familiarity in working with various statistical concepts such as Hypothesis Testing, t-Test, and Chi-Square Test, ANOVA, Statistical Process Control, Control Charts, Descriptive Statistics, and Correlation Techniques.

EDUCATION

- **Master of Information Science** University at Suny Albany, New York **Aug 2016-May 2020**
- **Bachelors, Information Technology Engineering, Punjab** Technical University, Punjab, India **Aug 2007-July 2011**

EXPERIENCE

Software Application and System Engineer, Global foundries Post Fab, Burlington, USA

July 2018-Present

- Project lead to develop, design, implements API features, code maintenance, test and integrate the custom factory automation system application for Post-fab Manufacturing Processes.
- Developed Python scripts to populate auto commenting tool stop issues using regression analysis.
- Working remotely with the international customer to report product processing with semiconductor Test Processes.
- Experience working in Agile Scrum Software Development methodology integrating Continuous Integration and Continuous Delivery (CI/CD) environment for an efficient software solution.
- Implemented classification algorithms such as Logistic Regression, K-NN neighbors, and Random Forests to predict the Customer product processing and Fab processes automation.
- Installation, configuration, and managed Docker orchestration, Docker containerization using Kubernetes.
- Hands-on experience in Integrating Jenkins with GitHub private repo, build automation tool MAVEN and Nexus repository for pushing successful code build.
- Drawing on experience in data warehousing solutions like database issues, data modeling, data mapping, data migration, ETL development, Metadata management and reporting solution.
- Generated the reports and visualizations documents based on the insights mainly using Tableau and developed dashboards.

Test Fab, Global foundries, Dresden, Germany

- Worked on software application development, statistics and implemented an automation solution in the field of Test engineering.
- Motivated Machine Learning Engineer with an in-dept knowledge of designing and maintaining MySQL systems and optimizing algorithms for the best performance possible.
- Implemented Pandas, NumPy, SciPy, Matplotlib, Scikit - learn in python to perform data cleaning, preprocessing checking techniques and distributing the data normally by log transformation.
- Strong knowledge in LINUX/ UNIX environments and Shell scripting for System Administration tasks like installation, configuration, operations, and maintenance of hardware and software-related infrastructure.
- Extensive administrative experience in ticketing tools JIRA and confluence for creating projects and assigning user access.

Information Technology Officer (Officer Assistant),

ICICI Bank LTD, Punjab, India

Sept 2012-June 2014

- Maintained a formal system for employee file documentation using JAVA. (saving > 20k Rs.).
- Performed parallel, functionality, and regression testing accordingly to requirements to meet the customer expectations.
- Identified and resolved collaboration and deployment issues by project management tools.

Assistant professor, Govt. Polytechnic College

Aug 2011-Sep 2012

- Assisted in the implementation and conduct of training projects using C, C++, Machine learning, PHP, SQL, and JAVA.
- Delivered lectures on Shell, Bash, network, firewall, storage, load balances, operating systems on client sites.
- Developed the first campus-wide Intranet application for posting course descriptions and pre-requisites.

Software Engineer Internship, Trident Industries Limited, Punjab India

Dec 2010-July 2011

- Provided 2nd level support for all Linux-related issues on Linux Ubuntu.
- Designed and developed Automated Build Process monitoring with ERP systems for Corporate Communications.

TECHNICAL SKILLS

- Front-end technologies: JAVA, Python, R, Perl, C++ Smarty, PHP, jQuery.
- Back-end technologies: SQL, Oracle, MySQL, Maria-DB, Heidi, NoSql, PostgreSQL, Advanced Excel.

LEADERSHIP AND ACTIVITIES

- Nominated for leadership program by Director of PostFab team in Global foundries (May 2020).
- Member of Global women to plan and organize an event for all sites in Global foundries (November 2019).

CERTIFICATION

- IBM Data Science Professional Certification (On-Going): Coursera
- Machine Learning with TensorFlow APIs: Google
- Machine learning and AI foundation, Advanced SQL, Advance R programming and Python 3 Essential Training: LinkedIn