(605) 202-9181
shauryakhurana0@gmail.com
Vermillion, SD 57069

SHAURYA KHURANA
Software Engineer

EDUCATION

Master of Science, Computer Science, *3.5*
University of South Dakota, *(2020 – Present)*

Bachelor of Technology, Electronics & Telecommunication, *3.74*
Jaypee Institute of Information Technology, India
(2012 – 2016)

SKILLS

Languages: Python (Pandas, NumPy, Matplotlib, scikit-learn, Seaborn, TensorFlow, Django, Flask, Streamlit, os, Plotly), HTML, Markdown, JSON, YAML, LaTeX, Bash, Git, SQL, Puppet

Database: sMAP, PostgreSQL, Elasticsearch

Cloud AWS: EC2, VPC, S3, EBS, IAM, SNS, Load Balancing, CloudWatch, Auto-Scaling, CloudFormation, RDS, DynamoDB, Sagemaker

DevOps: GitHub, Bitbucket, SourceTree, Docker

Tools: Jupyter Notebook, ServiceNow, Jira, WorkFlowy, Trello, ER Assistant, Tableau**,** MS Excel, VS Code, PuTTY, WinSCP, Grafana, Postman, Confluence, Google Data Studio

Strengths: Predictive Analytics, Information Visualization, Statistical Modeling, Feature Engineering, Machine Learning, Artificial Intelligence, Web Scraping, Financial Analysis, Data Mining, Project Management, Data Structures & Algorithms, Image Processing, NLP

ACHIEVEMENTS

Have successfully completed **80+ certifications** from esteemed universities and organizations via **Coursera** in the field of technology, finance, and management.

Acquired the **Google IT Support Professional Specialization** to advance in troubleshooting, customer service, networking, operating systems, system administration, and security, *June 2020*

SPOT Award for contribution in achieving desired Business Results, **Cognizant**, *Nov 2017*

INDEPENDENT PROJECTS

Portfolio Construction and Analysis, *Present*

Reading Digital Certificates, *Mar 2020*

Data Structures Module in Python, *Dec 2019*

Music Analyzer, *July 2018*

Designing Python data science stack tutorials

WORK EXPERIENCE

Graduate Research Assistant, UNIVERSITY OF SOUTH DAKOTA
Jan 2020 - Present

- Data Mining Workflow of 2D Materials for Biofilm Data and Information Discovery System using Logistic Regression and KNN clustering.
- Developed an API wrapper for Globus in Python.
- Predicted COVID -19 trend worldwide with up to 90% accuracy using Polynomial Regression, Cross-Validation scheme, and visualizations.
- Designed automated animations for Travelling Salesman Problem and String Matching using Genetic Algorithms.
- Edge Map detection in Chest Radiographs for understanding abnormalities using Computer Vision techniques and Deep Learning models.

Data Analyst, ZENATIX SOLUTIONS, Gurgaon, India, *Feb 2019 - Dec 2019*

Industry: IoT, Energy
- Exploratory/Unstructured problem solving - identifying use cases from big-time-series for scalability across customers.
- Anomaly Detection in time series data streams across sites to benchmark data while normalizing it against external factors for actionable insights.
- Streamed data by removing inconsistencies and structuring metrics.
- Created DEX tools via interactive dashboards for account managers.
- Forecasted data like Energy Consumption, Energy Savings, Equipment Failures, Controller Health with over 95% accuracy.
- Deployed time-based and temperature-based controls on appliances.
- Summarized simulations by developing automated visualizations.
- Refactored code to clean and improve its internal structure, without changing its external functionality.

Programmer Analyst, COGNIZANT, Hyderabad, India, *Nov 2016 - Feb 2019*

Industry: Finance
- Integrated high-volume complex semi-structured data from multiple systems.
- Built a data-driven model to determine the incentive for employees.
- Curated data sourcing issues and designed REST APIs to fetch data.
- Developed a module to map customer surveys, feedbacks with application.
- Automated the process of loading leases into DIF, reducing the time by 70%.
- Modularized programs to speed up development time in the long run.

Industry: Healthcare
- Created Application, Database, Process, and BIRT servers in PROD & UAT environments for new clients using AMIs, CloudFormation and Puppet.
- Implemented auto-generated reports like Disk Usage, Server States, and CPU monitoring to speed up hotfixes and patching on servers by 80%.
- Analyzed logs for classification of errors using regular expressions and defining user usage statistics across multiple servers.
- Scheduled periodic backups/restores and governed security for user groups.

EXTRACURRICULAR & VOLUNTEER ACTIVITIES

Beta Tester, *Aug 2017 - Present* COURSERA	**Summer Intern**, *Jun 2015- Jul 2015* ALCATEL LUCENT
Summer Intern, *July 2014- Aug 2014* CENTRAL ELECTRONICS LIMITED	**Digital Marketeer**, *Feb 2014* GRADESTACK
Social Marketeer, *Dec 2013* GEMINI HITECH DISTRIBUTION	**Digital Marketeer**, *July 2013- Oct 2013* VA TECH VENTURES