

# Shreya Nimbhorkar

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## EDUCATION

- **M.S., Software Engineering, Data Science** **Aug 2021 - May 2023**  
San Jose State University, San Jose, CA  
GPA - 3.88/4.00
- **B.E., Computer Engineering** **Aug 2015 - May 2019**  
Gujarat Technological University, Gujarat, India  
GPA - 3.85 /4.00

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, ABAP, SQL, Open SQL
- **Security/Protocols:** HTTPS, SMTP, DNS, SSH, TCP/IP, VPN, XMPP, BGP, DHCP, CCNA training
- **Framework:** BurpSuite, Nmap, NIST, MITRE, Node.js, Wireshark, Django, React.js, Tableau, Power BI, Figma
- **Database:** MySQL, SQL, Oracle, SAP HANA, MongoDB
- **Others:** Google Colab, Git, AWS, Jenkins, Kubernetes, Docker, Ansible, Scrum, Shell Scripting, Putty, Linux
- **ML libraries:** NumPy, Pandas, Scikit-Learn, Keras, PyTorch, Matplotlib, NLTK, SciPy, TensorFlow

## EXPERIENCE

### Software Engineering Intern, Nokia **Jan 2023 - May 2023**

- Implemented code to verify conformance of feature functionality of Software Defined Network (SDN)
- Scaled the process of pushing alarms to control plane via JMeter and XML stanzas for XMPP communication
- Automated test cases and infrastructure utilizing Python and Linux commands resulting in 2% surge in processing speed
- Improved communication of SDN controllers with external systems by integrating RESTful APIs via Python scripts

### PowerApps Developer, Formfactor Inc **May 2022 - Aug 2022**

- Developed application using PowerApps for project management and deployed it on company's SharePoint website
- Utilized SQL queries to perform data manipulations, join operations, and aggregations on data stored in SharePoint list for calculating Key Performance Indicators (KPI)
- Configured data gateways using SharePoint framework, keeping data in reports and dashboards updated in Power BI

### Assistant System Engineer, Tata Consultancy Services **Sep 2019 - Aug 2021**

- Developed ABAP programs (Reports, IDocs, BDC, User Exits, SAP Scripts) by collaborating with functional consultants and architects to ensure smoothening of client's billing process by 20% in an agile environment
- Optimized code by utilizing Run time analysis, SQL Trace, code inspector, SQL Monitor Tool and SAP ABAP Test Cockpit vouching for an increase in quality and database performance
- Debugged and analyzed high-priority jobs in production environment, resulting in reduction of job failure by 3%

### Computer Network Associate – Intern, Vivekananda IT Institute **Jul 2018 - Sep 2018**

- Configured routers, switches, and other networking devices to setup network infrastructure for an enterprise
- Troubleshooted system failures and mitigated system losses by 7%
- Resolved network, storage, domain, connectivity, and configuration issues by collaborating with peers
- Administered to ensure the Confidentiality, Integrity and Availability of data residing on or transmitted to/from/through systems and networks by implementing Encryption, Digital Signature, and bug fixes (patches)

## PROJECT EXPERIENCE

### Detection Of Malicious Activity In Network – Intrusion Detection System

- Reviewed dataset and performed pre-processing before building and training model through Weka tool, tested model using KDD'99 dataset for its accuracy and error rate by applying Neural Networks and K-nearest Neighbors
- Evaluated flaws in a regular design and customized a network of servers and clients for intrusion detection
- Presented a review paper on "Review of Machine Learning Algorithms" in group of 3 at Gujarat technological university conference (IEEE journal) leading to extra 3 credits during final semester

### Hotel Management System

- Constructed CI/CD pipeline using Groovy scripts for integrating and deploying mobile application via Jenkins and docker on droplets of Digital Ocean with GitHub as SCM (Source Code Manager) and Git as version control tool
- Merged SonarQube into application to provide code analysis and streamline all manual operations of code review
- Automated deployment by scheduling Cron Job to trigger builds for code, resulting in saving deployment time by 30%

## VOLUNTEER/TRAINING

- Lead at Google Developer Student Clubs at SJSU
- Demonstrated expertise in Virtual Cybersecurity Engineering Internship program by SAP Forage