

Prashant Tomar

Norfolk, VA-23508

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About Me

Master's graduate in Computer Science from Old Dominion University (April 2024) with over nine years of professional experience. Adept at crafting innovative web applications, implementing data-driven solutions, and developing efficient algorithms for network analysis and web archiving. Passionate about applying machine learning, graph theory, and cloud computing to solve real-world challenges.

Technical Skills

Languages/Frameworks: Python, JavaScript, HTML, CSS, SQL, R, Node.js, Express.js, ReactJS, d3.js, Vega-lite, Bootstrap, Material.io

Technologies/Libraries: Git, REST API, NumPy, Pandas, Flask, PyTorch, NLTK, scikit-learn, TensorFlow, NetworkX

Database/OS: MySQL, MongoDB, Windows, Shell Scripting, Linux/Unix

Tools/Platforms: Visual Studio Code, Postman, Apache Server, IntelliJ IDEA, WorkBench, Docker, Figma, Sketch, Tableau, PowerBI, MemGator, Conifer, ReplayWeb.Page

Other Skills: Writing clean modular code, Code reviews, Version control workflows, Cloud Computing, DevOps, Data Analytics, Web Archiving, Graph Partitioning, NLP

Work Experience

SEES, ODU

Technical Support Professional

Norfolk, VA

2023 – 2024

- Provided technical mentorship and support for ODU-managed IT resources.
- Documented troubleshooting steps and customer communications in ServiceNow.
- Managed hardware and software upgrades for computing needs.
- Automated IT service processes using PowerShell and Python scripts.
- Assisted in configuring and maintaining cloud services and virtual machines.
- Provided network troubleshooting and security enhancements for campus-wide systems.
- Implemented best practices for data security and system optimization.

ITS, ODU

Graduate Research Assistant

Norfolk, VA

2022

- Developed a pipeline to process 1000+ unique Twitter data links using Python and APIs.
- Conducted archival analysis using MemGator, visualized insights through scatterplots.
- Built a webpage ranking system using TF-IDF and PageRank to rank 1000+ webpages.
- Automated data collection and cleaning pipelines with curl, wget, and Python.
- Implemented machine learning models to classify and analyze web content trends.
- Developed scripts to resolve shortened links and remove tracking parameters for clean archiving.
- Explored Conifer and ReplayWeb.Page to archive web pages, storing over 750 unique URLs.

Corporate InfoTech Pvt. Ltd.

Network Engineer

India

2015 – 2022

- Implemented identity awareness, security policies, and VPN configurations.
- Diagnosed complex network issues, optimized system performance, and enhanced security.
- Configured anti-malware solutions, URL filtering, and maintained high system uptime.
- Deployed and maintained enterprise network infrastructure, including BGP and OSPF configurations.

Projects

Web Server Design Course Project: Python — Docker — GitBash

- Designed and implemented an HTTP server, ensuring compliance with HTTP/1.1 standards.
- Deployed the server in a Docker container for real-world environment simulation.
- Managed the project in GitHub, incorporating instructor feedback for performance optimization.
- Designed load-balancing strategies to enhance server efficiency.
- Integrated RESTful API endpoints and optimized query handling mechanisms.
- Developed an interactive dashboard to monitor server performance metrics.

Repository: GitHub Repository

Modeling Public Mood to Detect Events: Python

- Developed a sentiment analysis pipeline using NLP techniques to analyze social trends.
- Collected and processed over 70,000 tweets using web scraping tools like sncrape.
- Designed sentiment scoring algorithms to visualize societal impacts using data visualization tools.
- Integrated ML models to classify tweets and detect anomaly events.
- Developed interactive dashboards using Tableau for real-time sentiment trend analysis.
- Deployed a predictive model to forecast sentiment shifts in response to major events.

Repository: GitHub Repository

Education

Old Dominion University

M.S. Computer Science, GPA: 3.85

Norfolk, VA

2022 – 2024

Maharishi Dayanand University

B.Tech Computer Science

India

2010 – 2014

Awards

Hampton Roads Datathon 2022: Third place for **Wetlands and Protected Areas** project. **Live Dashboard:** [Dashboard Link](#)

Hampton Roads Datathon 2023: Third place for **Hampton Roads Wellness Intersectionality Study**. **Live Dashboard:** [Dashboard Link](#)