

# Prashant Tomar (PT)

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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 and implementing data-driven solutions, blending technical precision with user-centric design to deliver impactful results.

## 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, mvc
- *Database/ Operating Systems:* MySQL, MongoDB, Windows, Shell Scripting, Linux/Unix
- *Tools and Platforms:* Visual Studio Code, Postman, Apache Server, IntelliJ IDEA, WorkBench, Docker, Figma, Sketch, Tableau, PowerBI
- *Other Technical Skills:* Writing clean modular code, Code reviews and version control Workflows

## WORK EXPERIENCE

### *Technical Support Professional*

May 2023 –May 2024

*SEES at Old Dominion University(ODU), Norfolk, VA*

- Worked as technical mentor and gave support to ODU-managed IT resources.
- Document all work, troubleshooting steps and customer communications in the ODU ServiceNow ticketing system.
- Managed all the hardware and software upgrades for various for all computer needs.

### *Graduate Research Assistant*

Aug 2022 – Dec 2022

*ITS at Old Dominion University(ODU), Norfolk, VA*

- Developed a pipeline to extract, process, and resolve 1000+ unique links from Twitter data using Python and APIs, ensuring comprehensive data analysis readiness.
- Performed archival analysis on collected data using MemGator and visualized insights through scatterplots and tables, showcasing expertise in data processing and visualization tools.
- Developed a webpage ranking system leveraging TF-IDF and PageRank algorithms to analyze and rank 1000+ webpages based on query relevance, using Python and data processing tools.
- Implemented automated data collection and cleaning pipelines with tools like curl, wget, and Python for extracting raw HTML, processing text, and constructing a searchable inverted index.

### *Network Engineer*

Mar 2015 –Jul 2022

*Corporate InfoTech Pvt. Ltd., New Delhi, India*

- Implementing Identity awareness and configuring security policies and VPNs.
- Troubleshooting complex network issues, optimizing system performance, and implementing robust security protocols.
- Configuring Anti-malware settings and URL filtering & ensuring maximum uptime is maintained.
- Create an OU for Security Groups and Servers and Creating Group Policies and Delete permissions.

## PROJECTS

*Web Server Design Course Project* | Python | Docker | GitBash | [GitHub Repository](#)

- **Protocol Conformance:** Designed and implemented an HTTP server in multiple phases, ensuring compliance with HTTP/1.1 standards and functionality.
- **Deployment in Docker:** Packaged and deployed the server in a Docker container for testing on remote machines, simulating real-world server environments.
- **Collaborative Code Review:** Managed the project in a private GitHub repository, incorporating instructor feedback and rigorous testing to optimize server performance and reliability.

*Modeling Public Mood to Detect Events* | Python | [GitHub Repository](#)

- **Developed a sentiment analysis pipeline** utilizing Python libraries (e.g., nltk, pandas) to preprocess, tokenize, and analyze tweets, identifying public mood trends around social, economic, and political events.
- **Collected and analyzed a dataset of over 70,000 tweets** from Twitter using web scraping tools like snsrape, focusing on sentiment changes before, during, and after significant events (e.g., Sri Lanka economic crisis protests).
- **Designed sentiment scoring algorithms** to categorize tweets as positive, negative, or neutral, producing visual trends and actionable insights on societal impacts through data visualization tools.

## EDUCATION

**Old Dominion University**, Norfolk, VA

Aug 2022-May 2024

*Master of Science, Computer Science, GPA: 3.85*

**Maharishi Dayanand University**, Rohtak, India

Aug 2010-May 2014

*Bachelor of Technology, Computer Science*

## PROFILE SUMMARY

- Versatile professional experience in networking, web, and software development.
- Proficient in crafting innovative web applications and data-driven insights, using Python, JavaScript, and modern frameworks.
- Expertise in implementing scalable, user-centric solutions, enhancing user experiences, and solving complex challenges.

## AWARDS

*Hampton Roads Datathon*, City of Norfolk, VA | [Live Dashboard](#)

Sep 2022

Third position for the team project Wetlands and Protected Areas in Hampton Roads

*Hampton Roads Datathon*, City of Norfolk, VA | [Live Dashboard](#)

Sep 2023

Third position for the team project Hampton Roads Wellness Intersectionality Study

(More specific details and briefs can be provided upon request)

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*Portfolio*