

Prashant Tomar (PT)

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Portfolio

ABOUT ME

I am Prashant (PT), a Master's graduate in Computer Science from Old Dominion University, class of April 2024. With over nine years of professional experience, I bring expertise in crafting and delivering innovative web solutions, focusing on front-end development. My work combines technical precision with a strong emphasis on user-centric design, ensuring seamless and impactful digital experiences.

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
Master of Science, Computer Science, GPA: 3.85

Aug 2022-May 2024

Maharishi Dayanand University, Rohtak, India
Bachelor of Technology, Computer Science

Aug 2010-May 2014

PROFILE SUMMARY

- Versatile professional experience in networking, web, and software development.
- Proficient in crafting innovative web applications and user-centric solutions, integrating APIs and modern frameworks like React and Node.
- Expertise in software development, excelling in technologies such as JavaScript, Python, HTML, CSS, and SQL.
- Proven ability to enhance user experiences and solve complex problems through analytical thinking and collaboration.

EXTRACURRICULAR

Hampton Roads Datathon, City of Norfolk, VA | [Live Dashboard](#)
Third position for the team project Wetlands and Protected Areas in Hampton Roads

Sep 2022

Hampton Roads Datathon, City of Norfolk, VA | [Live Dashboard](#)
Third position for the team project Hampton Roads Wellness Intersectionality Study

Sep 2023

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

