Prashant Tomar

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About Me

Software Developer with expertise in React, Node.js, JavaScript, and UI frameworks. Passionate about building scalable, efficient, and user-centric web applications. Proficient in data visualization (D3.js, Vega-Lite), cloud computing (AWS), DevOps practices, and API development. Strong focus on performance optimization and seamless digital experiences.

Skills

- **Languages/Frameworks**: Python, JavaScript, HTML, CSS, ReactJS, SQL, Node.js, Next.js, d3.js, Vega-lite, Tailwind CSS, Material-UI
- **Technologies/Libraries**: Git, REST API, NumPy, Pandas, Flask, PyTorch, NLTK, scikit-learn, TensorFlow
- **Database/OS**: MySQL, MongoDB, Windows, Shell Scripting
- **Tools/Platforms**: Visual Studio Code, Postman, Apache Server, IntelliJ IDEA, MySQL Workbench, Docker, Figma, Tableau, Power BI, MemGator, Conifer, ReplayWeb.Page
- **Other Skills:** Writing clean and modular code, Code reviews, Version control workflows, AWS, DevOps (Agile Principles), Google Tag Manager (GTM), Google Analytics

Work Experience

IT Intern at SEES, ODU   **Norfolk, VA**

May *2024 – Present*

- Developed automation scripts using Python and PowerShell to streamline IT service processes.
- Managed cloud services and virtual machines (AWS) to improve infrastructure efficiency.
- Provided technical support and troubleshooting for ODU-managed IT resources.
- Implemented data security best practices and system optimization techniques.
- Led hardware and software upgrades, ensuring seamless computing experiences.

Graduate Assistant at SEES, ODU   **Norfolk, VA**

May *2023 –May 2024*

- Managed and resolved IT support tickets using ServiceNow, ensuring prompt response to hardware, software, and connectivity issues.
- Provided front-line user support by troubleshooting technical problems both remotely and on-site, escalating complex issues to senior teams when necessary.
- Documented troubleshooting procedures and updated knowledge base articles, ensuring that best practices were accessible to the entire technical support team.
- Trained new team members on IT support tools and protocols, improving team efficiency and reducing onboarding time for new hires.

Graduate Research Assistant at ITS, ODU   **Norfolk, VA**
                                                                     Aug *2022 – Apr 2023*

- 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.

Network Engineer at Corporate InfoTech Pvt. Ltd.   **New Delhi, India**
                                                                     Mar *2015 – Jul 2022*

- Developed automation scripts in Python and Bash to optimize network configurations.
- Managed enterprise security policies and identity-aware access controls.
- Implemented network monitoring dashboards using Grafana and Splunk for real-time system tracking.
- Integrated cloud-based VPN solutions (AWS), enhancing secure remote access.
- Configured firewall and anti-malware solutions, ensuring robust cybersecurity.

Projects

Web Server Design Course Project | Python | Docker | GitBash | GitHub Repository
Designed and implemented an HTTP/1.1-compliant server, deployed it in a Docker container for remote testing, and managed the project via GitHub with collaborative code reviews and rigorous testing to ensure performance and reliability.

Modeling Public Mood to Detect Events | Python | GitHub Repository
Developed a sentiment analysis pipeline using Python (nltk, pandas) to analyze 70,000+ tweets, identifying public mood trends around major events like the Sri Lanka economic crisis. Designed scoring algorithms to categorize sentiments and visualized trends for actionable insights.

Education

Old Dominion University   **Norfolk, VA**
M.S. Computer Science, GPA: 3.85   *Aug 2022 – May 2024*

Maharishi Dayanand University   **Rohtak, India**
B.Tech Computer Science   Aug *2010 – Jun 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