Prashant Tomar

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CAREER SUMMARY

- *Results-driven Software Developer & Technology Specialist with 9+ years with expertise in React, NodeJS, JavaScript and UI frameworks. Passionate about designing innovative, user-centric applications and leveraging data-driven insights for impactful solutions.*

- *Transitioned from a Networking Engineer to a Software Developer, building expertise in React.js, JavaScript, Python, Node.js, and DevOps to craft scalable web applications and enhance system efficiency.*

- *Developed a web archiving and data analysis pipeline at ODU, processing 1,000+ Twitter links using Python, APIs, and machine learning. Built a page-ranking system with TF-IDF & PageRank algorithms.*

- *Automated IT operations at ODU, using PowerShell, Python, and cloud computing to streamline ticket resolution, hardware management, and security for 500+ systems.*

- *Engineered a scalable HTTP server in Python, ensuring full compliance with HTTP/1.1 standards, deploying in Docker environments, and integrating load-balancing techniques for optimized request handling.*

- *Led a team of 30 network engineers, maintaining 99% uptime and optimizing IT performance, security, and profitability through automation and strategic resource management.*

CORE COMPETENCIES

- ➢ Languages/Frameworks: Python, JavaScript, HTML5, ReactJS, SQL, Node.js, d3.js, Vega-lite, Tailwind CSS, Material-UI, Terraform

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

- ➢ Database/OS: MySQL, MongoDB, Windows, Shell Scripting

- ➢ Tools/Platforms: Visual Studio Code, Postman, Apache Server, IntelliJ IDEA, MySQL Workbench, Docker, Kubernetes, Figma, Tableau, Power BI, MemGator, Conifer, ReplayWeb.Page

- ➢ Other Skills: AWS, DevOps (Agile Principles), Google Tag Manager (GTM), Google Analytics

PROFESSIONAL WORK EXPERIENCE

SEES, ODU – NORFOLK, VA
IT Intern   *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 500+ ODU-managed IT resources, maintaining an issue resolution rate of 95%.
- Implemented best practices for data security and system optimization, improving system performance by 25% and reducing security incidents.
- Led hardware and software upgrades for 200+ devices, achieving zero downtime and ensuring seamless computing experiences.

SEES, ODU – NORFOLK, VA
Graduate Assistant   *2023 – 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.

ITS, ODU – NORFOLK, VA
Graduate Research Assistant   *2022 – 2023*

- 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 – NEW DELHI, IND
Network Engineer   *2015 – 2022*

- Monitored and diagnosed Layer 2 and Layer 3 networks using network monitoring tools.
- Installed, configured, and maintained Air India MPLS router at Terminal 3.
- Deployed and monitored Air India's DHCP server for Boeing 787 maintenance laptops.
- Set up and maintained EAFR server (Fujitsu) at Terminal 3 for Boeing 787 data exchange.
- 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.

EDUCATION

Old Dominion University , Norfolk, VA
MS, Computer Science

PROJECTS

Web Server Design Course Project | *Python | Docker | GitBash*

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 | NLP*
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.

AWARDS

Recognized at **Hampton Roads Datathon** *(2022 & 2023),* **securing third place** *for leveraging data science and visualization tools to analyze environmental and wellness-related datasets, developing real-time interactive dashboards.*