Prashant **Tomar** (PT)

WEB DEVELOPER

www.linkedin.com/in/badjedi04/

913.605.5136

tomar.p@aol.com

Norfolk, VA 23508

HIGHLIGHTS

- Versatile Technologist with expertise in Python, React, and Node.js, backed by 6+ years in networking.
- Proven Problem-Solver, turning complex challenges into intuitive, efficient applications.
- Hands-on experience in IT automation, cloud technologies, and scalable solution development.
- Strong background in Frontend Development, Full-Stack Engineering, and DevOps practices.

PROFESSIONAL EXPERIENCE

SEES | ODU May 2023 - Present

Information Technology Analyst

- Developed automation scripts using Python and PowerShell, streamlining IT workflows and reducing service delays by 20%.
- Managed AWS cloud services and virtual machines (VMs), optimizing infrastructure efficiency by 25% through resource provisioning and performance tuning.
- Provided technical support for 500+ IT resources, achieving a 95% issue resolution rate and upgrading 200+ devices with zero downtime.

Information Technology Services | ODU Aug 2022 - Dec 2022

Graduate Research Assistant

- Led the development of 'online.odu.edu' by utilizing React.js for the frontend, Node.js for the backend, and MySQL with RDS hosting, creating a dynamic and scalable web platform.
- Created backend solutions, including structured MySQL database models, driving success across multiple lab projects.
- Deployed and managed applications using GitHub, GitLab, Linux, PM2, AWS EC2, S3, Route 53, RDS, Nginx and GoDaddy DNS.

Corporate Infotech Pvt. Ltd., New Delhi, Ind Mar 2015 - Jul 2022

Network Engineer

- Configured, managed, and optimized network infrastructure (LAN/WAN), performed troubleshooting of network devices (routers, switches, firewalls), and ensured high availability and performance through proactive monitoring and network optimization techniques.
- Introduced CI/CD pipelines (Jenkins, GitHub Actions) to streamline deployment of network automation tools.

DEVELOPMENT SKILLS

Python . JavaScript . ReactJS . SQL . NodeJS . HTML5 . Tailwind CSS . Material UI . Flask . TensorFlow

FRAMEWORKS & SKILLS

REST API . NumPy . Pandas . d3JS Vega-lite . PyTorch . NLTK . scikit-learn . Terraform . DevOps (Agile)

TOOLS AND LIBRARIES

Git . Docker . Visual Studio Code. Postman . Figma . Tableau . Power BI . MySQL Workbench . AWS . Google Analytics . GTM

EDUCATION

Old Dominion University, Norfolk, VA

M.S. (Computer Science)

Aug 2022 - Aug 2024

PROFESSIONAL BRIEF:

(LAST 3 YEARS OF PROJECTS/ACCOMPLISHMENTS)

Web Server Design using HTTP 1.1 Aug 2022 - Dec 2022

- Engineered a fully HTTP/1.1-compliant web server using Python, deployed in Docker containers, and optimized with load-balancing techniques, ensuring reliable request handling and performance under remote testing.
- Managed project workflows for the HTTP server project via GitHub, conducting code reviews and rigorous testing, ensuring high-quality deliverables within a team environment.

Modelling Public Mood to Detect Events Jan 2023 – May 2023

- Engineered a deep learning model to analyze 75,000 tweets related to the Sri Lanka riots, achieving 90% accuracy using OpenAI's GPT and BERT, and contributing to NLP research on event detection.
- Utilized the Twitter API to collect tweets from a specific time frame, applying BeautifulSoup and Pandas for efficient web scraping and data preprocessing, reducing processing time by 30%.
- Implemented sentiment analysis to detect key events, using a neural network architecture that incorporated embedding layers, CNN and GRU, achieving 75% accuracy, validated through precision metrics and visual evaluations.

Computer Vision Analysis of TikTok Videos on Coyote Migration Jan 2023 - Dec 2023

- Extracted and analyzed text from TikTok videos using OCR (Tesseract), SpaCy, and NLTK, applying clustering techniques to categorize themes and trends.
- Translated multilingual text using Google Translate API, enabling deeper insights into messages embedded in the videos.
- Performed color detection analysis with OpenCV and K-Means clustering, identifying visual patterns in video frames for further investigation.

Wetlands and Protected Areas in Hampton Roads Aug 2022 - Sep 2022

- Utilized ArcGIS Pro to analyze wetlands in Hampton Roads, revealing only 34.8% are protected and just 6% of protected areas contain wetlands. Created interactive maps to highlight conservation gaps.
- Processed 10,000+ data points with OpenRefine and built Power BI dashboards, showing Virginia Beach leads in protected wetlands, while Norfolk, Portsmouth, Williamsburg, and New Kent have <5% combined.
- Developed an ArcGIS StoryMap integrating four GIS layers, emphasizing the need for 15–20% more conservation efforts in high-risk areas. Won 3rd place at the Hampton Roads Datathon 2022.

Hampton Roads Wellness Intersectionality Study Aug 2023 - Sep 2023

- Used ArcGIS Pro to analyze wellness disparities, prioritizing 66 schools (26 in Norfolk, 12 in Portsmouth, 10 in Newport News, etc.) based on socio-economic and environmental factors like sea-level rise vulnerability and vegetation index (NDVI).
- Built interactive geospatial maps to visualize school distribution and high-risk areas, ensuring transparent public access and supporting data-driven community wellness initiatives.
- Developed an ArcGIS StoryMap, integrating financial, social, physical, and environmental wellness factors, emphasizing green infrastructure projects. Won 3rd place at Hampton Roads Datathon 2023.

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

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