

ANGEL SINGH SHRESTHA

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EDUCATION

The University of Texas at Arlington <i>Bachelor of Science in Computer Engineering, GPA: 3.92 / 4.00</i>	Arlington, TX Expected May 2028
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EXPERIENCE

Service Desk Analyst <i>Office of Information Technology, The University of Texas at Arlington</i>	Jun 2025 – Present Arlington, TX
Undergraduate Research Assistant <i>The University of Texas at Arlington (CRA UR2PhD)</i>	May 2025 – Jul 2025 Arlington, TX

– Administered user accounts and security groups using ADUC and the Microsoft Admin Portal.

– Supported mission-critical campus infrastructure across Linux and Windows systems.

– Developed internal JavaScript automation to streamline operational workflows.

– Promoted to **Tier II** in Dec 2025 to handle escalated incidents involving identity management, access control, and system reliability.

PROJECTS

IntellinMonk Django REST Framework, React, MySQL, AWS, Zabbix	Jan 2024 – Present
– Designed scalable RESTful APIs using Django REST Framework handling 1K+ requests/day with average latency under 120 ms , architected for horizontal scaling.	
– Deployed on AWS with MySQL-backed persistence and integrated Zabbix monitoring, achieving 99.5% uptime .	
Networking Homelab Proxmox, pfSense, AWS EC2, Nginx, WireGuard, Zabbix, Splunk	2023 – Present
– Built a virtualized homelab hosting 10+ services using Proxmox with segmented networks designed for scale.	
– Implemented an outbound firewall on AWS EC2 with Nginx reverse proxy, achieving 900+ Mbps throughput with sub- 5 ms latency, monitored via Zabbix and Splunk.	
AI Soap Quality Detection Machine Learning, Sensors, Python	Feb 2024
– Developed an AI model using SUDS sensor data achieving 100% accuracy in detecting defective samples during validation.	
– Logged training and inference outputs for analysis, contributing to the project receiving the Best Group Presentation Award .	

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, R

Frameworks: Django, Django REST Framework, React, Flask, FastAPI

Cloud & Infrastructure: AWS (EC2), Docker, Proxmox, Virtualization

Networking: TCP/IP, Routing, Firewalls, VPNs, pfSense, WireGuard

Monitoring & Observability: Zabbix, Splunk, Log Analysis

Tools: Git, CI/CD (GitLab, Jenkins), VS Code, IntelliJ

CERTIFICATIONS

- **The Bits and Bytes of Computer Networking** — Google
- **Python for Data Science, AI & Development** — IBM
- **Version Control** — Meta
- **Introduction to Databases** — Meta
- **Django Web Framework** — Meta
- **React Basics** — Meta