

ANGEL SINGH SHRESTHA

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EDUCATION

The University of Texas at Arlington

Bachelor of Science in Computer Engineering, GPA: 3.92 / 4.00

Arlington, TX

Expected May 2028

EXPERIENCE

Service Desk Analyst

Jun 2025 – Present

Arlington, TX

Office of Information Technology, The University of Texas at Arlington

- 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.

Undergraduate Research Assistant

May 2025 – Jul 2025

The University of Texas at Arlington (CRA UR2PhD)

Arlington, TX

- Conducted research on 3D in-memory computing architectures focused on memory-centric computation and scalability.
- Analyzed hardware-software tradeoffs through literature review and proposal development.

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