

AAYUSH KAFLE

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SKILLS AND TOOLS

- **Certifications:** Autho Certified Developer, CS50: AI & Application Development (EdX), Data Analytics (Coursera), Discover AI (UNM).
- **Identity & API Management:** Custom Identity & Access Management, API Gateway, Moesif Analytics, OAuth2, RESTful Web Services.
- **Integration & Enterprise Systems:** TIBCO BusinessWorks (BW5/BW6), Power Automate, Copilot Studio, Itron/UIQ (AMI/ADMS), AppWorx, ServiceNow (ITIL / CAB Change Management).
- **Programming Languages:** JavaScript, Node.js, C# (.NET), Python, Java, SQL, HTML/CSS, XML/XSLT, C++, Bash.
- **Frameworks & Libraries:** React, .NET Core, ASP.NET, Express, Flask, scikit-learn.
- **Cloud, DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Git/GitHub/GitLab, Azure, AWS, Postman.
- **Databases & Tools:** SQL Server, Oracle, MySQL, PostgreSQL, MongoDB, Toad.

EXPERIENCE

Programmer Analyst

03/2025 – Present

Utility Applications, PNM Resources

- Earned Autho Certified Developer while engineering custom CIAM flows with HTML, CSS, JavaScript, and Node.js Actions/Triggers for 600k+ utility customers across New Mexico and Texas.
- Configured Autho CLI and Jenkins CI/CD pipelines to automate multi-tenant migrations of applications, actions, and settings across environments via Git push triggers.
- Managed end-to-end installation, upgrades, and maintenance for WSO2 API Gateway and Moesif Analytics, enforcing OAuth2 and rate-limiting policies to ensure 99.9% system uptime.
- Developed TIBCO BusinessWorks (BW5/BW6) integrations supporting AMI and ADMS Grid Modernization, including AppWorx-scheduled workflows transferring Itron/UIQ smart meter data to Banner for bill processing.
- Built an automated Copilot Studio agent and Power Automate workflow on a 5-minute database query cycle to surface critical integration exceptions and accelerate system failure response times.
- Authored complex SQL queries and stored procedures using Toad to extract integration data and optimize relational database operations.
- Managed ITIL lifecycle operations in ServiceNow by logging incidents, leading thorough integration testing, and driving formal Change Requests through CAB approvals prior to production deployments.

Software Developer Intern

08/2024 – 12/2024

OpenQQuantify, Remote

- Refined domain-specific AI models for technical queries, achieving a 40% increase in accuracy through systematic fine-tuning.
- Automated data transformation in Python to convert 1,500+ PDFs to structured JSON/JSONL formats, improving model accuracy by 60%.
- Enhanced scalable front-end Q&A using React, handling 50+ commonly asked questions and reducing average page load time by 30%.

Student Technical Specialist

05/2022 – 12/2024

IT Academic Technologies, University of New Mexico

- Automated file sorting processes with Python, reducing manual workload by 80% and saving 10+ hours weekly across the team.
- Conducted comprehensive evaluation surveys for 2,000+ courses per semester, streamlining operations across 39 departments.

PROJECTS

LoboLocate | Mobile App | 1st Runner-Up, UNM/CNM App Contest

- Tools & Features: React Native, Node.js, MongoDB, Socket, Express, RESTful APIs.
- Achievements: Secured 1st Runner-Up in the UNM/CNM App Contest, awarded \$2,500.
- Launched a lost-and-found app for 27,000+ UNM students, increasing item recovery rates by an estimated 35%.
- Engineered real-time communication features and integrated AI image recognition to automate item categorization.

GitHub

Demonstration

Auction House | Real-Time Auction System using Client-Server Structure

- Tools: Java (OOP), Java Sockets, HashMap, Priority Queue, Multi-threading, Timers, Gitlab.
- Developed a real-time auction system supporting 200+ users with synchronized bid processing latency under <100ms.
- Implemented robust multi-threading and custom data structures to ensure data consistency and thread safety during high-volume traffic.

GitHub

Predicted Cryptocurrency Price Fluctuations Using Media Sentiment | Python

- Tools & Features: Python, TensorFlow, Keras, scikit-learn, GPT-2, SentenceTransformers, Pandas, Matplotlib, API Integration.
- Achieved 85% accuracy in cryptocurrency price forecasting using LSTM and sentiment analysis on 1M+ media posts.
- Automated data preprocessing and integrated sentiment embeddings using RAG (Retrieval-Augmented Generation) and LSTM networks, reducing manual effort by 30% and enabling accurate predictions of cryptocurrency price trends for Bitcoin, Ethereum, and altcoins.

GitHub

EDUCATION

Bachelor of Science in Computer Science with a minor in Mathematics

08/2021 – 12/2024

University of New Mexico, Albuquerque, NM | Cum Laude (Top 15%)

- Course Work: Software Engineering, Operating Systems, Discrete Structures, Database, Big Data, Data Structures and Algorithms.

ACHIEVEMENTS & INTERESTS

- 1st Runner-Up, UNM/CNM App Contest (2024): Secured 2nd place among 20+ teams for innovative mobile app design.
- Engineering Success Scholarship (2023) and Amigo Scholarship (2021–2024) for outstanding academic excellence in Computer Science.