

DARSH CHAURASIA

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PROFESSIONAL SUMMARY

High-performing professional with 1+ years of experience delivering high-impact work in the technology industry. Skilled in developing strong internal and external relationships to facilitate collaborative achievement of organizational goals. Confident in ability to thrive in a fast-paced setting and leverage skills in automation, cloud, full-stack development, and machine learning, to enable team success.

SKILLS

Languages: Python, C#, C++, Java, JavaScript, TypeScript, SQL, R, HTML/CSS, Swift

Frameworks & Libraries: PyTorch, FastAPI, React, Next.js, Node.js, Express, .NET, NumPy, Pandas, Scikit-learn

Databases & Cloud: PostgreSQL, MongoDB, Amazon Web Services (EC2, S3, SageMaker), Azure, RunPod

Systems, DevOps & Tools: Docker, Kubernetes, Git, GitHub Actions, Linux, Bash, Postman, Jupyter Notebook

PROFESSIONAL EXPERIENCE

Cloud & Distributed Software Development and Delivery Engineer Intern

Aug 2025 - Dec 2025

FEITIAN Technologies US, San Jose, CA

- Resolved a **DNS misconfiguration** that caused 5 days of production downtime; implemented automated custom-domain and **SSL/TLS** provisioning to prevent recurrence, reducing certificate provisioning time by **45%**.
- Containerized services with **Docker** to standardize local and cloud environments, cutting setup time by **40%**; streamlined the database schema for new portal features and documented it for maintainability.
- Delivered a product portfolio platform with **hybrid search**, enforced **row-level security (RLS)**, and an **admin dashboard** that enables non-technical teams to update visual content without engineering support.

Technical Product Manager Intern

May 2025 - Aug 2025

FEITIAN Technologies US, San Jose, CA

- Built a self-service bulk seed-data delivery portal on Azure Container Apps integrated with Azure AD B2C and Blob Storage SAS; cut delivery time by **80%** and eliminated **150+** monthly email requests from partner businesses.
- Improved **SK Manager** security-key provisioning by updating backend services and shipping UX-driven workflow enhancements, increasing provisioning efficiency and satisfactory customer experience by **45%**.

PROJECTS

AI and IoT Enabled Urban Traffic Management for Congestion Reduction

Spring 2025

Built an AI-driven traffic prediction and signal-optimization workflow using real-world IoT traffic data to enable adaptive control and reduce congestion-related delays and emissions. Trained an **LSTM** model on the **UTD19** dataset spanning 40 cities with cleaned, normalized inputs and engineered features (traffic density, speed, time-of-day) to forecast traffic flow, achieving a mean absolute error of **~102 vehicles/hour** and RMSE of **~232 vehicles/hour**. Implemented a reinforcement learning module to optimize signal timing and validated learned policies via Q-table analysis.

Chain of Custody Blockchain Tool

Spring 2025

Built a Python-based **blockchain command-line** tool for evidence tracking to support auditable chain-of-custody records with tamper-resistant storage. Implemented **UUID-based** item lifecycle management for add, check-in, check-out, removal, and full provenance tracking across events. Strengthened data integrity using **AES encryption**, block verification, and binary storage to reduce corruption risk and ensure verifiable, audit-ready records.

EDUCATION

Arizona State University - Bachelor of Science in Computer Science

May 2026

Minor in Data Science | Certificate in Applied Business Data Analytics

GPA: 3.92

LEADERSHIP EXPERIENCE

Co-President: The AI Society at ASU, Tempe, AZ

May 2025 - Present

Vice President: The AI Society at ASU, Tempe, AZ

Jan 2025 - May 2025

Director, Software Solutions: The AI Society at ASU, Tempe, AZ

Aug 2024 - Jan 2025