

Devank Uppal

uppal.devank@outlook.com | 314-624-4237 | www.devank.cv | linkedin.com/in/devankuppal | github.com/dev0179

SUMMARY

Computer Science student targeting data engineering and software engineering rotations. Experienced building data pipelines, platform automations, and analytics workflows while coordinating cross-functional delivery and executive communication.

EDUCATION

Iowa State University – Bachelor of Science, Computer Science

Expected May 2027

- **Minors:** Artificial Intelligence, Data Science, Statistics
- **Certs/Programs:** Azure AI Fundamentals, Meta Data Analyst, AWS Student Builder Campus Leader

TECHNICAL SKILLS

- **Data:** Python, SQL, PySpark, Databricks, ETL/ELT, data validation, Tableau, Power BI, Pandas/NumPy
- **Systems:** AWS data and security stack, VPC, IAM roles, Docker, Terraform, Git/CI/CD, Java, JavaScript, MCP

EXPERIENCE

John Deere – Intelligent Solutions Group, Student Data Analyst

Aug 2026 – Present

- Partner with Ag Engineering on request-driven analysis of sensor, telemetry, field operations, testing, reliability, and usage/performance machine data using **PySpark**, **SQL**, and **Databricks**.
- Design **Tableau** dashboards with story-driven visuals that translate machine data requests into clear engineering and product insights.

Spectrum, Advanced Technology Intern

May 2026 – July 2026

- **Data Engineering**
 - Built AWS-backed pre-load and post-load automations for a Salesforce CPQ application using AWS Glue, Athena, S3, Redshift, and Terraform.
 - Reduced manual extraction and update work from 45–60 minutes to 17 minutes.
- **Pipeline Dashboard**
 - Built an EC2-hosted Python/FastAPI pipeline monitor to trigger jobs and track approvals, status, and audit trails.
 - Added data-load views for the migration team, executives, and business partners, reducing ad-hoc status checks.
- **AI Architecture**
 - Designed context-aware AI architecture and security-based access flows for internal tooling.
 - Defined MCP-enabled workflows that earned business approval for project funding.
- **Project Coordination**
 - Led scrum coordination for CPQ-Salesforce integration, testing, vendor/DevOps handoffs, and VP-level updates.
 - Prepared executive reporting templates, presentations, and cascading timelines for VP-level software leaders.

Privacy-Preserving Analytics Research, Research Assistant

Aug 2025 – Present

- Extended Google's RAPPOR into Multi-View RAPPOR for correlated datasets and aggregate analytics.
- Benchmarked Private Set Intersection systems at 67M records, analyzing runtime, memory, accuracy, and scalability.

Saint Louis Zoo API Automation, Intern

Oct 2023 – Dec 2023

- Built Python API pipelines for large-scale biodiversity data ingestion and transformation into analytics-ready datasets.
- Automated processing workflows, reducing execution time from **hours to under one minute**.

PROJECTS

Cy Saint's Hospital Management Platform [Android GitHub] [WebApp GitHub]

Aug 2025 – May 2026

- **Android:** Built backend authentication, role-based access, and AI guardrail for a health assistant; won Best Project Overall (1st place) among 300+ students.
- **Web:** Built a follow-on React web app with patient, doctor, pharmacy, and admin workflows, JWT authentication, MongoDB APIs, notifications, and health records.

High Altitude Balloon Experiments in Technology (HABET), Operations

Jan 2025 – Dec 2025

- Built custom web-based dashboards to visualize real-time flight telemetry for mission control.
- Configured NASA OpenMCT views and integrated flight telemetry for live monitoring across seven launches.