

Devank Uppal

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SUMMARY

Computer Science senior at Iowa State working at the intersection of software and data engineering, passionate about applying AI to practical problems. Experienced in building applications, automating workflows, and working with large-scale data - from analysis to pipelines. Seeking a full-time role after graduating in May 2027.

EDUCATION

Iowa State University - B.S. Computer Science

Minors: Artificial Intelligence, Business, Statistics | GPA: 3.12

Expected May 2027

Ames, IA

EXPERIENCE

John Deere - Intelligent Solutions Group

Part-time Data Analyst

Ames, IA

Aug 2026 - Present

- Support agricultural engineering teams working on new R&D and existing products by analyzing telemetry and other engineering data with PySpark, SQL, and Databricks.
- Develop dashboards (including Tableau) and reusable data views for engineering and reliability analysis.
- Support Right to Be Forgotten data compliance; standardized GitHub file naming.

Fiakominds - Startup

GTM - Software Development

St. Louis, MO

Apr 2026 - Present

- Developed the customer-facing website with AI-assisted development, owning requirements, code review, deployment, SEO, and Google Search Console indexing to support go-to-market readiness.
- Designed and delivered an internal React tool for marketing campaigns and automated onboarding, including account creation, license assignment, and onboarding emails, using Supabase and Microsoft Entra SSO.

Spectrum

Advanced Technology Intern - Salesforce

St. Louis, MO

May 2026 - Jul 2026

- Built three data migration automations using AWS Glue to run processing jobs, Amazon S3 to store data, and Amazon Athena to validate results; reduced preprocessing time from **45-60 minutes to 17 minutes**.
- Used Terraform and GitLab CI/CD pipelines to deploy infrastructure supporting the data migration workflows.
- Built an HTML/JavaScript dashboard with a Python/FastAPI backend on AWS EC2, bringing a CLI-based ETL workflow into a web interface with approvals, status tracking, and audit trails; used AI-assisted development to accelerate delivery.
- Volunteered as project manager for Salesforce CPQ integration across the SDLC, coordinating vendors, testing, delivery, and VP-level reporting.
- Designed context-aware AI/MCP architecture linking MCP servers to an orchestration agent, with document-level access controls.

TECHNICAL SKILLS

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

Backend & Cloud: FastAPI, Spring Boot, REST APIs, MySQL, AWS (EC2, Glue, S3, Athena, Redshift), Terraform

Data & Tools: PySpark, Databricks, pandas, ETL, Tableau, Docker, Linux, Git, GitLab CI/CD, Salesforce

RESEARCH AND PROJECTS

Privacy-Preserving Analytics - Research Assistant

Aug 2025 - Present

- Benchmarked Private Set Intersection workloads across **67 million records**, measuring runtime, memory, accuracy, and scalability.
- Extended Google's RAPPOR algorithm into Multi-View RAPPOR for correlated datasets; built Python experiments to evaluate privacy-utility tradeoffs.

Hospital Management System

Aug 2025 - Dec 2025

- Built Java/Spring Boot/MySQL backend APIs and integrated a Gemini assistant with role-aware access controls.
- Original application ranked **1st in a 300-student cohort**; later expanded into a web platform with a project partner.

HABET Mission Monitoring

Jan 2025 - Dec 2025

- Built and deployed a Linux-hosted Python/Flask system with NASA OpenMCT and WebSocket telemetry for balloon tracking and antenna control; used during **8+ launches**.

LEADERSHIP

AWS NEXT GEN - Student Builder Campus Leader

Apr 2026 - Present

- Promote AWS on campus through outreach and classroom engagement; report student engagement metrics.

VEX U Cyber Robotics Club - Software Lead and Treasurer

Jan 2025 - Present

- Lead a **15+ member software team** building C++/PROS autonomous and driver-control systems for two competition robots; manage path planning, PID tuning, and the team budget.