

# Akul Maheshwari

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## EDUCATION

### Cornell University

May 2027

*B.S. in Computer Science, GPA: 3.72*

*Ithaca, NY*

- **Coursework:** Networks, Analysis of Algorithms, Data Structures and Algorithms, Functional Programming
- **Activities:** GenAI Club (**Co-Founder, VP of Operations**), Hack4Impact (**Team Lead**), Course Staff

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern

May 2026 - Aug 2026

*Databricks*

*Mountain View, CA*

- Built a batched, cron-driven workflow that provisions and decommissions clusters in bounded waves with human-approved control, projected to migrate all 140 clusters hands-free across AWS, Azure and GCP.
- Designed and shipped a registration RPC and claim/reset lifecycle in a legacy cluster-lifecycle manager, reducing manual provisioning to a single idempotent call.
- Optimized the reset pipeline by narrowing resource baselines from 1,700 to 858 and fixing a networking teardown bug that stalled resets, reaching near-100% first attempt convergence.

### Solutions Architect Intern

May 2025 - Aug 2025

*Amazon Web Services (AWS)*

*Seattle, WA*

- Modernized a legacy **Java** codebase by designing and deploying a **serverless application** using **AWS Lambda, Bedrock, and DynamoDB**, improving processing efficiency and reducing execution time by **65%**.
- Integrated **AWS Cognito** for secure authentication and authorization, alongside **S3** and **CloudFront** for dynamic content delivery, decreasing front-end latency by **40%**.
- Developed an **AI-powered code analysis feature** using **Amazon Bedrock** to automate refactoring suggestions, reducing manual review time from 2 hours to under 20 minutes for a team of **50+ engineers**.

### Software Engineer Intern

May 2024 - July 2024

*ST Engineering (Singapore-based defense and technology group)*

*Singapore*

- Developed a **ward management system** using **Next.js**, streamlining the patient discharge workflow by **75%**.
- Designed and implemented a **business rules engine** enabling **2,000+ nurses** to dynamically configure logic, reducing manual interventions by **30%**.
- Refactored and optimized **nurse scheduling algorithms** in **Python**, decreasing runtime by **40%** and improving responsiveness during peak hours.

## OTHER EXPERIENCE

### Lead Software Developer

Feb 2024 – Present

*Hack4Impact (Student-led organization building software for social good)*

*Ithaca, NY*

- Led development of the open-source **Endowment Manager (CHEM)** platform supporting **200+ non-profits**, built with **Next.js, Express, and Prisma**.
- Architected and implemented **2,000+ lines of production-level code** across **10+ modular components**, including dynamic tables and dashboards.
- Directed onboarding and mentorship for **5 new developers**, improving ramp-up time and overall team efficiency.

## PROJECTS

### Internal Member Archive (IMA) | *MongoDB, Express, React, Node*

Aug 2024 – Present

- Developed an **internal web application** for **Hack4Impact alumni**, used by **200+ members**.
- Implemented seamless contacting functionality increasing **alumni response rates by 80%**.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, Scala, Go, TypeScript, SQL, OCaml

**Frameworks:** Kubernetes, React, Node, Next, Express, Flask, Spring Boot

**Libraries:** pandas, NumPy, Matplotlib, scikit-learn, Redux, React Query

**Tools:** Git, Docker, PostgreSQL, Cursor, Claude Code, Codex