

Aayush Bharadwaj

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PROFESSIONAL EXPERIENCE

Capital One | Software/Data Engineer, Partnerships Data Team (*Richmond, VA*) Sep 2025 - Present

- Engineered production Python/Databricks pipelines that transformed raw partner and credit data into automated analytics products, replacing legacy R workflows and **reducing processing time by 80%**.
- Drove adoption of operational Databricks pipelines **across 3 teams**, guiding engineers through setup and deployment using my production repositories as implementation templates.
- Developed a Claude-powered data quality workflow that automated DQ rule creation and execution, reducing dataset setup time **from ~1 hour to just 30 seconds**.
- Automated vulnerability remediation with Claude Code by detecting issues, applying fixes, and opening pull requests, cutting resolution time from **~30 minutes to ~5 minutes per repository**.

Technologies Used: Python, Scala, AWS, Apache Spark, Databricks, Snowflake, Jenkins, Claude Code

UW-Madison | AI Undergraduate Researcher (*Madison, WI*) Sep 2023 - May 2025

- Fine-tuned LLMs to evaluate student-written responses and measure model accuracy across educational concepts.
- Built an evaluation pipeline using LLM-generated test cases to improve AI graders through reinforcement learning.
- Conducted a user study on the viability and risks of AI in education, contributing to two published [papers](#).

Technologies Used: Llama, Mistral, RoBERTa, Python, Django, React, Huggingface APIs

Barclays | Software Engineering Intern (*Whippany, NJ*) Jun 2024 - Aug 2024

- Developed a Salesforce utility used by 3,000+ bankers to identify contacts near prospective clients.
- Created contact-management workflows on Salesforce with custom Outlook integrations for banking users.
- Achieved 92% Apex test coverage by building comprehensive unit tests for production Salesforce workflows.

Technologies Used: Salesforce Languages (Apex, SOQL, LWC) and APIs, Java, Node.js

Calamos Investments | Software Development Intern (*Naperville, IL*) Jun 2023 - Aug 2023

- Designed a centralized tools dashboard that streamlined internal development workflows across the IT department.
- Delivered 7 full-stack dashboards for monitoring critical business workflows and functionality.
- Modernized legacy reporting applications on Calamos' proprietary research platform with web-based workflows.

Technologies Used: C#/.NET, Angular, SQL, HTML, CSS, TypeScript, Azure DevOps, Git

PROJECTS

[MadHousing.com](https://madhousing.com) | *Next.js, Node.js, React/TypeScript, MongoDB, Tailwind, Git* Feb 2022 - April 2024

- Built and launched Madhousing.com to assist students in selecting dorms through peer-rated reviews.
- Grew the platform to **60K+ unique users** and **260K+ page views**, earning coverage in 3 local publications.
- Refactored the application to Next.js, replacing the JavaScript codebase to improve performance and maintainability.

Blur | *Django, React Native, AWS, SQL, Expo, Apple Developer SDK* October 2024 - May 2025

- Launched an anonymous campus social app for sharing thoughts on various topics with AI-powered moderation
- Grew to **100+** users across **5 schools**, participated in a Madison-based startup accelerator, and secured a **\$5K** grant

EDUCATION

University of Wisconsin - Madison May 2025

B.S. in **Computer Science, Data Science, and Economics** **GPA: 3.94/4.00**

- Extracurriculars:** President of Software Development Club (200 members), Cardinal Trading Group (Dev Team), KPMG Case Competition (National Runner Up), Undergraduate Research (2 published papers)

SKILLS

- Languages:** Python, TypeScript/JavaScript, SQL, Java, Scala, C#, C, Bash
- Technologies:** AWS, Databricks, Spark, Snowflake, React, Next.js, Django, .NET, Docker, Git, Salesforce