

# Aditya Rawat

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## EDUCATION

### University of Wisconsin - Madison

Madison, WI

*Bachelor of Science in Computer Science and Data Science — Dean's List*

*Sep. 2023 – May 2026*

- **Relevant Coursework:** Data Structures and Algorithms, Linear Algebra, Discrete Math
- **Extracurriculars:** Intramural Soccer and Basketball, Club Swim, Cardinal Trading Group, Wisconsin Autonomous, Google Developers Group, Leetcode Club

## EXPERIENCE

### Fidelity Investments

June 2024 – August 2024

*Software Engineering Intern*

*Durham, NC*

- Automated the collection of data validation incidents and client helpdesk requests by developing a platform with **Python, Snowflake** and **AWS**, streamlining monthly incident reporting for the head of **Fidelity's Fund and Investments Operations (FFIO)** by reducing analyst report time from **one week to real-time**
- Preprocessed data from vendors like **S&P, Moody's, Fitch, and Bloomberg**, transforming it into a standardized format for the Fidelity.com brokerage
- Experimented with machine learning models using **scikit-learn, Tensorflow, and PyTorch** to analyze trends from previous months and perform predictions on future incident reports, **returning 93% accuracy**
- Developed a generalized, config-driven financial securities data query platform using **Angular, FastAPI**, and **Snowflake Stored Procedures**, eliminating the need for Bloomberg Terminal licenses for employees querying data already available in back office files, **saving \$2–3 million annually**

### Kamunity.io

May 2023 – Aug 2023

*Software Developer Intern*

*Irvine, CA*

- Developed transactions and insights API endpoints with **Java 17, Spring Boot**, and **Spring JPA** to dynamically retrieve user financial data from **PostgreSQL**, handling zero data months to ensure accurate progression graphs, **increasing data accuracy and reliability of financial insights by 25%**
- Strengthened authentication features by implementing form validation, profile editing, and tracking failed login attempts through **custom React hooks**, **reducing unauthorized access by 30%**
- Streamlined the accuracy of new features by writing unit test cases with **React Testing Library** and **Jest** for the frontend, and **JUnit** for the backend, while optimizing **CI/CD pipelines** using **GitHub Actions** to **reduce deployment time by 40%**

### Aviato

July 2022 – July 2022

*Freelance Frontend Web Developer*

*Remote*

- Collaborated with Aviato's design team on **Figma** to determine the most marketable design and worked independently with **Next.js** and **ChakraUI** to develop Aviato's landing page for their prospective early-stage beta testers

## PROJECTS

### Memorize.ai | *React, TypeScript, Google Firebase (Cloud Firestore, Cloud Functions), TensorFlow*

2020 – 2022

- Developed a cross-platform web application with **React, Next.js**, and **TypeScript**
- Scaled the platform using Firebase's **Cloud Firestore** to support over **10,000 daily active users**
- Engineered an AI algorithm in **Node.js**, trained on **TensorFlow**, and executed via **Firebase Cloud Functions** to **implement dynamic spaced repetition**, optimizing study session timing and **maximizing retention**

### Sigmoid Hacks 1.0 | *React, TypeScript, Styled Components*

2020 – 2022

- Responsible for designing, developing, and maintaining event website with **Next.js** and **Styled Components**
- Led team to organize the event (workshops, schedule, sponsors, prizes), driving a **400+ participant turnout**

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, PHP, HTML, CSS (Sass), SQL, R

**Frameworks:** React, Next.js, Angular, Node.js, Express, FastAPI, Spring Boot, Spring Data JPA, JUnit

**Technologies:** AWS (EMR, EC2, S3, IAM, Lambda), Google Cloud Platform, Google Firebase, Snowflake, Git, GitHub, GitHub Actions, Maven, Gradle, PostgreSQL, MongoDB, VSCode, PyCharm, IntelliJ

**Libraries:** TensorFlow, PyTorch, NumPy, scikit-learn, pandas, Matplotlib, JQuery