

Aditya Kakade

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EDUCATION

Cornell University, Ithaca, NY

Expected Dec 2025

- Intended Bachelor of Science: Computer Science Major, Data Science Minor (May 2025)
- Intended Master of Engineering: Computer Science (Dec 2025)
- 3.7 Cumulative GPA -- *Dean's List*

WORK EXPERIENCE

MITRE Corporation

Bedford, MA

Software Engineer Intern, Secure AI

Jun – Aug 2024

- Contributed to backend architecture of internal web application identifying and standardizing AI-related cyber attack methods.
- Transformed internally existing web application from static to dynamic with hosted server.
- Implemented MongoDB database model compatible with 150+ pre-existing incident report objects and STIX.
- Created RESTful API to integrate with pre-existing frontend and dynamically convert report object formats using Jinja.

MITRE Corporation

Bedford, MA

Software Engineer Intern, Mission Planning

Jun – Aug 2023

- Engineered a full-stack application allowing end users to geospatially query and download mission file types.
- Implemented local file-system crawler and modification-tracking algorithm using C#/ASP.NET core.
- Deployed MongoDB database, database service layer, & API capable of tracking and storing geospatial file types.
- Developed UI using React.js, enabling visualization, querying, & download of 10,000+ files for offline application use.

TECHNICAL EXPERIENCE

Cornell Electric Vehicles

Ithaca, NY

Software Lead

Aug 2023 – Present

- Led team of 5 developers in creating & maintaining a web dashboard network responsible for serving vehicle data.
- Oversaw 3 projects using Scrum project management approach to track deadlines, progress & sync developers.

Cornell Electric Vehicles

Ithaca, NY

Software Engineer, Data Applications

Aug 2022 – May 2023

- Collaborated on network of 4 interlinked web applications and server for handling 4+ years of vehicle testing data.
- Developed Android application in React Native acting as live in-vehicle dashboard displaying sensor values to driver.
- Enabled connectivity between live dashboard and microcontroller on car using TCP & HTTP over a shared network.
- Implemented RESTful API for historical dashboard to summarize and display vehicle statistics from previous testing.

PROJECT EXPERIENCE

ByteBites AI Recipe Application

- Developed full stack application using custom implemented & trained Resnet, T5 and GPT-2 models to enable ingredient identification from uploaded images, and generation of unique recipes using provided ingredients.

Deja Brew Social Media Application

- Created a social media application to link nearby users and recommend drinks based on user-created coffee profiles.
- Deployed backend consisting of database and API to store posts and user information using Google Cloud instance.
- Deployed relational database allowing for image creation, storage, and retrieval using AWS.

LEADERSHIP EXPERIENCE

Cornell University College of Engineering

Ithaca, NY

Teaching Assistant: INFO 2950 - Data Science

Aug 2024 - Present

- Provided guidance in introductory Data Science concepts to over 150 students through office hours and online forums.

RELEVANT SKILLS

- Languages: Python, Java, Ocaml, C#/.NET, Typescript, SQL, HTML, CSS
- Web Frameworks/Technologies: Flask, MongoDB, Docker, Axios, Express.js, React.js, AWS, FastAPI
- Software Areas: Databases, REST APIs, Web Development, Agile Product Development
- ML Libraries: Numpy, Pandas, Sklearn, Transformers, OpenCV