

Aayush Agnihotri

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EDUCATION

Cornell University

Ithaca, New York

Bachelor of Arts in Computer Science, Minor in Business | GPA: 3.97

Expected May 2025

Relevant Coursework: Data Structures and Functional Programming, Machine Learning, Object-Oriented Programming and Data Structures, Java Programming, Backend Development, Discrete Structures

EXPERIENCE

Johnson & Johnson

Skillman, New Jersey

Software Engineer Intern, Intelligent Automation

May 2023 - August 2023

- Developed and deployed ChatGPT-like AI chatbot using React and Django with 10,000+ users globally
- Achieved cost savings of \$20,000+ and reduction of 400+ work hours annually through process automation
- Applied natural language processing (NLP) algorithms to create text-based vector embeddings, optimizing document similarity search by 70%
- Integrated vector databases to store documents, single sign-on, and SQL databases through Microsoft Azure
- Collaborated with cross-functional Agile teams, utilizing JIRA for project management and code delivery

Cornell Nexus

Ithaca, New York

Software Engineer

September 2022 - Present

- Spearheaded design and implementation of a full stack GUI application in React and Node.js with Express
- Enabled telemetry data integration, allowing remote updates for autonomous robot state and traversal
- Coordinated with 8-member team to build robot field visualization software in Python using Numpy
- Simulated traversal algorithms and finite-state machine paths to optimize robot navigation strategies

Aziton

South Plainfield, New Jersey

Full Stack Software Engineer

June 2019 - May 2023

- Designed, developed, and deployed web applications addressing community needs, achieving 1.2+ million page views and generating \$1,000+ in profits
- Integrated search engine optimization techniques, resulting in a 400% increase in organic website traffic

PROJECTS

MusicMaster | *React, Flask, PostgreSQL*

January 2023 - April 2023

- Created a music recommendation engine with React and Flask, leveraging the Spotify REST API and a dataset of 2000+ song audio features
- Implemented user authentication using OAuth 2.0 framework and utilized PostgreSQL databases for storing favorited content records
- Built a ML recommendation model employing cosine similarity with Python, Pandas, and Scikit-Learn

NJoy | *React, Firebase*

January 2022 - March 2022

- Developed a trip-advising app in React showcasing NJ's most famous attractions, landmarks, and activities
- Implemented user authentication, authorization, and persistent storage of ratings and reviews using Firebase serverless functions
- Integrated the Google Maps REST API to provide locality data, images, and directions to attractions

SKILLS

Languages/Frameworks: Java, JavaScript, TypeScript, Python, SQL, React, Flask, Express, Node.js, Django

Cloud and Developer Tools: AWS, Microsoft Azure, Google Cloud Platform, Docker, Firebase, Agile, Git, Postman, Unix, JIRA