

Aayush Agnihotri

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EDUCATION

Cornell University

Ithaca, New York

Bachelor of Arts in Computer Science, Minor in Business | GPA: 3.98

Expected May 2025

Relevant Coursework: Machine Learning, Analysis of Algorithms, OOP & Data Structures, Functional Programming, Computer Vision, Backend Development, Discrete Structures

SKILLS

Languages: Java, JavaScript, TypeScript, Python, C/C++, OCaml, SQL, HTML, CSS

Frameworks: React, Express & Node.js, Flask, Django, Pytorch, NumPy, Scikit-Learn, Pandas

DevOps & Cloud: AWS, Microsoft Azure, Google Cloud Platform, Docker, Kubernetes

Technologies & Developer Tools: PostgreSQL, MongoDB, GraphQL, Agile, JIRA, Git, Postman, Unix

EXPERIENCE

Johnson & Johnson

Skillman, New Jersey

Software Engineer Intern

May 2023 - August 2023

- Developed ChatGPT-like AI chatbot using React and Django with 10k+ users, achieving annual savings of \$20k+ through process automation
- Applied NLP algorithms to create text-based vector embeddings, optimizing document similarity search by 70%
- Integrated vector databases to store documents alongside single sign-on and SQL databases through Microsoft Azure

Cornell AppDev

Ithaca, New York

Backend Developer

September 2023 - Present

- Developing new features and backend architecture for various mobile apps with 11k+ daily users using TypeScript, Python, and GraphQL
- Collaborating with iOS, Android, Design, and Marketing teams in agile development to create and maintain apps
- CS 1998 (Backend Development) TA, teaching server architecture, database design, deployment, and authentication

Cornell Nexus

Ithaca, New York

Software Engineer

September 2022 - December 2023

- Spearheaded design and implementation of a full-stack GUI application in React and Node.js with Express, enabling transmission of robot state
- Coordinated with an 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

PROJECTS

Volume | *TypeScript, Python, MongoDB, GraphQL, AWS, Docker*

September 2023 - December 2023

- Built a cross-platform open-source Cornell student publication app with 1k+ users, facilitating exploration, sharing, and saving of content
- Developed content bookmarking through GraphQL queries/mutations and MongoDB database migrations, streamlined user organization creation through Python automations

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 2k+ song audio features
- Implemented OAuth 2.0 for user authentication and utilized PostgreSQL for storing favorited content records, alongside a ML recommendation model employing cosine similarity with Python, Pandas, and Scikit-Learn

NJoy | *React, Firebase*

January 2022 - March 2022

- Designed and built a trip-advising app with React highlighting NJ's attractions, integrating the Google Maps REST API for locality data, images, and directions
- Implemented user authentication, authorization, and storage of ratings and reviews using Firebase cloud functions