

# BEAU HAYES-POLLARD

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## EDUCATION

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### Cornell University

*Bachelor's Degree in Computer Science*

GPA: 3.8 / SAT: 1580

Ithaca, NY

May 2026

**Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Systems Programming, Computer System Organization, Functional Programming, Discrete Mathematics, Probability & Statistics, Machine Learning Foundations, Database Systems, Computer Vision, Data Science with R, Linear Algebra

### Technical Skills:

- **Programming Languages:** Python, JavaScript/TypeScript, Java/Kotlin, C++, SQL, R
- **Frameworks and Libraries:** Flask/FastAPI, Node, Spark, Pandas, LangChain, GraphQL, React
- **Developer Tools:** Git, Docker, PostgreSQL, MySQL, MongoDB, AWS/Azure, Jenkins, Spinnaker

## PROFESSIONAL EXPERIENCE

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### Netflix

*Software Engineer Intern*

May 2025 - August 2025

Los Gatos, CA

- Implemented a Python execution/runtime SDK for internal teams to deploy backend workflows through code.
- Compiled an API client that generates code for 50+ Studio Orchestrator endpoints to improve native integration.
- Coded a Java microservice that exposes a type-safe GraphQL layer for users to interact with their workflows.
- Wrote comprehensive unit and integration tests with >95% code coverage and authored SDK documentation.

### Stanford University

*Research Assistant*

January 2025 - May 2025

Palo Alto, CA

- Shipped a Python web scraping agent using Selenium/Playwright to scrape 10,000+ pages of "hard-to-get" data.
- Built a browser agent that crawls/interacts with the DOM and extracts content using LangChain and Stagehand.
- Fine-tuned random forest-based ML algorithm with Otsu thresholding to link 3M DoE to 22M Medicaid records.
- Researched RPA improvements using Chrome DevTools Protocol and computer-use agents to drive web tasks.

### Cornell University

*Research Assistant*

August 2024 - January 2025

Ithaca, NY

- Built a data-driven platform with React and Spring Boot for Cornell's admissions team, featuring a Typesense search algorithm to analyze students and deliver personalized course recommendations, used by 100s of students.
- Created a scalable Python data pipeline using multithreading to scrape and process 4,000+ Cornell class records.
- Cut average query time by >40% via Postgres schema refactoring, adding compound indexes, and caching joins.

### Harvard Medical School

*Software Engineer Intern*

May 2024 - August 2024

Boston, MA

- Made a full-stack application to visualize 200+ graph variants based on cancer morbidity data, featured at ASCO.
- Overhauled a data visualization tool with interactive metrics to support >3 diagnoses at a time in R and Shiny.
- Authored and designed 10+ pages of technical documents detailing API/server usage and guidelines for expansion.
- Collaborated with decision scientists to design and code a user-centric front-end to enhance explorative practices.

## OTHER EXPERIENCE

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### Culler ([github.com/beaubhp/culler](https://github.com/beaubhp/culler))

*Creator*

- Built Culler, a Rust CLI for Python dead-code analysis with reachability, API safeguards, and JSON output.
- Benchmarked Culler on 15 Python projects and 57K LOC, tracking runtime, F1, precision, and recall in CI.

**Awards:** Milstein Scholar, Z Fellows, Dean's List (all semesters), URMC, Armada, Microsoft's IoT Show