

# Jason Nair

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## EDUCATION

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### Cornell University

M Eng. Computer Science

Ithaca, NY

Expected May 2026

### Georgia Institute of Technology

B.S. Computer Science, Highest Honors (Summa Cum Laude)

Relevant Coursework: Data Structures, Artificial Intelligence, Machine Learning

## EXPERIENCE

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### Software Development Engineer Intern – Amazon

May 2025 - Aug 2025

- Developed an ML-powered pipeline that enhances Amazon's ability to extract critical product information from packaging images. The system integrates GPU-accelerated preprocessing with AWS services to improve text extraction accuracy and data accessibility.
- Implemented three computer vision models (CRAFT, RTMDet, DeepLabV3-ResNet50) to preprocess images through text detection, pictogram recognition, and item segmentation, improving text extraction accuracy from 40% to 85% for critical product information.
- Engineered a model orchestration pipeline to combine vision tasks while preserving contextual packaging information, improving confidence scores by 75% compared to the legacy system.

### Software Engineer Intern – Cox Automotive

May 2024 - Dec 2024

- Integrated the CLI with the AWS Reactive Framework API, **reducing** AWS account management time by 40% and simplifying developer workflows.
- Delivered 5 production-ready CLI tools using *Click* that parsed JSON configurations, cutting backend **configuration** errors by 30% and improving deployment reliability.
- Expanded test coverage and documentation, which reduced onboarding time for new developers by 25% and increased long-term maintainability.

## PROJECTS

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### GameStats2Text [Github](#)

Apr 2025

- Developed an encoder–decoder model that generated realistic post-game interview responses, conditioned on both player statistics and transcript history, with the goal of capturing player voice and narrative style.
- Built a statistical feature encoder to embed box-score data and combined it with textual context, improving BLEU/ROUGE scores compared to baseline text-only models.
- Processed 5,000+ transcripts and box scores into a standardized JSON/CSV dataset, enabling reproducible training and evaluation.

### Physical Diagnosis App [Github](#)

Jan 2024 – Dec 2024

- Collaborated with Emory School of Medicine to design and build an educational + diagnostic iOS app for melanoma detection
- Led a team of 5 through Georgia Tech's Capstone program, earning **3rd place** at the 2024 CS Design Expo out of 100+ projects.
- Trained and deployed an InceptionV3 model in CreateML, achieving 95% accuracy on a dataset of 10,000+ test images.

## SKILLS

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Java, JavaScript, C++, C, Python, Swift, SQL, Firebase, Git, Figma, TypeScript, Node.js, Click, Distributed Systems