

# Anthony Paredes-Bautista

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## EDUCATION

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### Cornell University - College Of Engineering

Ithaca, NY

*Bachelor of Engineering in Computer Science*

*Expected Graduation Date: May 2027*

- Intro CS: Design & Development (Python), Object-Oriented Programming and Data Structures (Java), Intro to Android Development (Kotlin), Foundations of AI Reasoning and Decision-Making (Python), Introduction to Analysis of Algorithms, Embedded Systems (C, ASM)

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, Lua, HTML/CSS, Assembly, Kotlin, C  
**Frameworks:** TensorFlow, JUnit, Express.js, React.js  
**Libraries & Tools:** NumPy, Pandas, Node.js, MongoDB, Docker, Git

## PROJECTS

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### Human Protein Atlas Classification *Numpy, Python, Tensorflow, Pandas*

January 2025

- Built a machine learning pipeline to classify protein microscopy images using data from the Human Protein Atlas.
- Preprocessed multi-channel images with custom one-hot encoding and trained a convolutional neural network using TensorFlow, optimizing data pipelines with `tf.data`.
- Evaluated model performance via validation accuracy, achieving **95.72%**.

### Book Tracker (In-Progress) *MongoDB, Express.js, React.js, Node.js*

September 2024

- Enabled streamlined book, author, and genre management, measured by prototype tests showing **30%** faster task completion, by developing a modular React front-end.
- Validated reliable **CRUD** functionality through unit and integration tests by designing and iterating Express.js APIs with **MongoDB** schemas.

### Android Multi-Service App *Kotlin, Jetpack Compose, Hilt*

April 2024

- Unified platform streamlining campus life by combining key student services into one app.
- Enhanced efficiency by integrating features such as Study Buddy, Dining options, and campus utilities.
- Extensions in progress: Total UI Revamp, Dining Helper, Study Spot Finder.

### Prakriti: Feeding the Future *Arduino, React, JavaScript, HTML, CSS, Netlify*

February 2024

- Developed software modules and deployed the website for Prakriti, a prototype IoT solution to curb rice crop burning in India (responsible for 86 million tonnes of CO<sub>2</sub> emissions annually).
- Collaborated on design and development, helping secure a **\$3,000** award at the Cornell Digital Ag Hackathon.

## CAMPUS INVOLVEMENTS

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- Cornell Cybersecurity Club (Main Club): Active member preparing for competitions, and one of the IVYSEC representatives for the club.
- BrawlStars Club: Member participating in community events and collaborative gaming sessions. (Mythic 3 Rank)
- Archery Club: Occasional participant in club practice.
- Fitness Enthusiast: Regularly work out to maintain health and challenge personal fitness goals.
- Gaming: Competitive First-Person Shooter player (Valorant Platinum rank).

## CERTIFICATIONS & COURSES

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- HarvardX: CS50's Introduction to Databases with SQL (in progress)
- CYB101 — Intro to Cybersecurity (CodePath Spring 2025)
- CYB102 — Intermediate Cybersecurity (CodePath Summer 2025)