

Aarush Chaubey | Résumé

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Education

University of California Berkeley

Department of Electrical Engineering and Computer Science

August 2024 – May 2028

B.A. Computer Science

Programming Experience:

Java, C++, \LaTeX , Python (also NumPy/TensorFlow/Keras), HTML/CSS, Scheme

Select Projects

Computer Programming

[Internship] United States Army 2024 — Keras/OpenCV/NumPy:

- Currently designing a **Region-based Convolutional Neural Network(R-CNN)** to aid in fast-paced medical situations
- Distinguishing Northern, Southern, Northeastern, Northwestern Indian faces for precision medicine uses
- Fully funded by the **Army Research Office (ARO)** — *Reference: Dr. Col. Jerry Miller*

[Internship] United States Army 2023 — Tensorflow/OpenCV/NumPy:

- Designed and implemented a **Convolutional Neural Network(CNN)** to detect missing persons from aerial cameras
- Achieved **98% accuracy** in person detection
- Network analyzed Unmanned Aerial Vehicle Forward Looking Infrared (FLIR) images
- Fully funded by the **Army Research Office (ARO)** — *Reference: Dr. Col. Jerry Miller*

Library Locator Website — ArcGIS/HTML/CSS:

- Built a website that compares library necessity to current library locations in order to inspire library construction throughout the Miami-Dade area
- Mapped all **50 libraries** in Miami-Dade county using **ArcGIS**, resulting in **over 70% of Miami-Dade not being covered by libraries**
- Nominated for **Miami Herald Silver Knights award** for this project

Awards/Honors

1st Place Statewide (250+ Competitors): Lockheed Martin CodeQuest

2nd Place Statewide (230+ Competitors): University of Central Florida High School Programming Tournament

1st Place Statewide (100+ Competitors): University of Florida High School Programming Competition

AIME Qualifier: Top 2.5% of worldwide competitors with a score of 7

Select Work Experience

Berkeley Math Tournament: Calculus Test-Organizer

September 2024 – Present

- Lead and oversee team of problem-writers, working together to make challenging problems, coordinate "test-solves", and place problems accurately
- Writing dozens of high-level algebra, geometry, and calculus problems for ~2000 high school students

Last updated September 25, 2024