Jacob Prabhu

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JacobPrabhu.com

EXPERIENCE

NVIDIA Corporation, Santa Clara, CA—*HW Intern*
Summer - Winter 2025

- Validated and characterized physical security circuits for GPUs and CPUs, authoring comprehensive test procedures, building automated validation scripts and debug tooling, and driving root-cause analysis and issue resolution with chip design, platform, and silicon test teams. Ensured robust protection of sensitive assets and IP.

EDUCATION

University of Illinois Urbana-Champaign, Champaign, IL— *Bachelor of Science in Computer Engineering*
August 2024 - present
GPA: 4.0 | James Scholar | Dean's List

Expected Graduation: May 2028

Relevant Coursework:

- ECE 120: Introduction to Computing
- CS 124: Introduction to Computer Science (Java)
- MATH 241: Calculus III

To be taken before Summer 2026:
- CS 1B: Intermediate Software Design in Java
- CS 1C: Advanced Data Structures & Algorithms in Java
- MATH 2A: Differential Equations
- MATH 2B: Linear Algebra
- PHYS 260: Electricity & Magnetism
- PHYS 270: Thermodynamics

Activities:

- **Member**, UIUC IEEE
  Learning various programming and design skills ranging from MatLab & KiCad to soldering.
- **Member**, Illini Solar Car
  Working with the Hardware Team to design and build circuit boards, power supplies and controllers.

Stanford University, Stanford, CA—*Summer Classes*
Summer 2023
GPA: 4.0

Relevant Coursework:

- EE 101A: Circuits I,
- CS 106A: Programming Methodology (Python)

SKILLS

Programming:
Python, Java, HTML, C++

Hardware & Design:
Circuit design, PCB layout, microcontrollers, soldiering

Software Tools:
VSCode, ArcGIS, Arduino, KiCad, MATLAB

CERTIFICATIONS

Disaster Risk Monitoring Using Satellite Imagery (NVIDIA): Fundamentals of building and deploying a deep learning model to automate the detection of flood events using satellite imagery.

Develop, Customize, and Publish in Omniverse With Extensions (NVIDIA): Introduction to creating custom Omniverse extensions using Python, integrating USD workflows, and deploying interactive tools.

AWARDS

Academic Excellence Award in Computer Science (Sacred Heart Preparatory): Given to the top Computer Science student in the Class of 2024.

AP Scholar with Distinction 2023 & 2024

LANGUAGES

English, Spanish