

# Isaac Gyamfi

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## EDUCATION

### PRINCETON UNIVERSITY

#### BS IN ELECTRICAL AND COMPUTER ENGINEERING

May 2026 | Princeton, NJ  
College of Engineering  
Cum. GPA: 3.57 / 4.0

## COURSEWORK

### UNDERGRADUATE

#### COMPLETED

Intro to Computer Science  
Multivariable Calculus  
Data Structures and Algorithms  
Contemporary Logic Design

#### IN PROGRESS

Introduction to Programming Systems  
Advanced Programming Techniques  
Electronic Circuit Design, Analysis and Implementation  
Information Signals  
Differential Equations

## SKILLS

Proficient: • Java • Python • Flask • CSS • HTML5 • JavaScript • CAD (SolidWorks) • Arduino • RESTful API Familiar: • Git • Github • React • SQLite • MySQL • Linux • Django • C/C++ • R • Excel • Google Sheets • Postman • PCB Design (EAGLE/KiCAD) • Electronic Circuit Simulation (Proteus/QElectrotech)

## AWARDS

2019 Silver Medallist, IJSO (Link)  
2020 Winner (NSMQ, Ghana) (Link)

## CERTIFICATES

• Molecular Imaging Techniques Mini-fellowship, **STANFORD UNIVERSITY** (Link)  
• J.P. MORGAN SOFTWARE ENGINEERING VIRTUAL EXPERIENCE (Link)

## CLUBS

Princeton African Students Association  
African Summit At Princeton  
Princeton Robotics Club

## EXPERIENCE

### TECHNOLOGY INTERN, VODAFONE INTERNSHIPS | VODAFONE GHANA (LINK)

Summer 2021

- Contributed to the automation of enterprise business processes under the technology department
- Won the best performing intern.

### ASSISTANT DEVELOPER | CKODON FOUNDATION (REFERENCE)

Summer 2023 | Princeton, NJ

- Used **HTML**, **CSS** and **Python** to create a careers website for applicants to apply for job openings in CKODON Foundation.
- Used **Bootstrap** framework to style the website.
- Used **MySQL** to store and retrieve applicant information from the database.
- Hosted the website on **Render**.

## RESEARCH

### LAB ASSISTANT | KELLER CENTER FOR INNOVATION IN ENGINEERING EDUCATION

Summer 2023 | Princeton, NJ

- Assisted a professor to modify the lab experiments and projects for introductory engineering classes.
- Carried out miscellaneous activities like CAD design, 3D printing, software update and writing manual for some MATLAB programs and tutorials.

### RESEARCH ASSISTANT | ELECTRONICS LAB

Summer 2021 | Kumasi, Ghana

- Used Arduino and Solidworks to design and simulate smart walking cane for 100 visually impaired persons.
- Identified appropriate building materials and mechanical design.

## TECHNICAL PROJECTS

### J.P. MORGAN SOFTWARE ENGINEERING VIRTUAL EXPERIENCE ON FORAGE

- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

### PYTHON PROGRAM | WEATHER APP

Spring 2023 | Princeton, NJ

- Used the **time**, **requests**, **plyer** and **tkinter** modules for this project.
- Created a window to take names of places as input.
- Retrieved data from a weather **API** to give a notification of the temperature, humidity and atmospheric pressure of any place.