

SCHUYLER SEYRAM

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EDUCATION

Cornell University - Ithaca, NY

Expected May 2024

Major: Electrical and Computer Engineering.

Relevant Coursework: Introduction To Computing(Python), Calculus, Object-Oriented Programming and Data Structures, Introduction to Circuits, Digital Logic and Computer Organization, Linear Algebra, Intelligent Physical Systems, Computer Networks and Telecommunication, Data Science for Engineers, Embedded Systems,, Microelectronics, Advanced Bio-Robotics,, Computer Architecture(in progress)

SKILLS

- **Programming languages:** Python, Java, JavaScript, C++
- **Experience with:** HTML, CSS, Git, GitHub, Django, ReactJS, Heroku, Verilog, Linux, Android, Arduino, Raspberry Pi, KiCAD , ENVI , POSPac, PARGE.

ENGINEERING EXPERIENCE

Google Hardware Product Sprint Program

June 2022 - Aug 2022

Selected Participant, Electrical Track

- Designed digital clock schematic using KiCAD and created prototypes using Arduino Uno
- Designed the Printed Circuit Board(PCB) using KiCAD PCB Editor to perform device footprint placement
- Wrote clock firmware for ATmega328P in C++ and debugged firmware using prototype.
- Assembled parts onto the PCB and flashed both bootloader and firmware

Kehillah Ghana Limited - Remote

May 2022- Aug 2022

Software Engineering Intern

- Collaborated with frontend engineers to build the user interface of the startup's web app using React.
- Implemented database models, refactored existing code base and execute code reviews
- Developed a Django application that sends notifications to clients via WhatsApp and email.

Cyber-Agricultural Intelligence and Robotics Laboratory, Cornell University

June 2022 - Aug 2023

Laboratory Research Assistant

- Configured drones for aerial flights over specific plots using Raspberry Pi and other Linux based systems
- Engineered hyperspectral and LIDAR machines to collect data aerially
- Configured Real Time Kinematic systems to aid in positional accuracy of data collected aerially
- Presented transformed data in comprehensive formats to aid decision making in the agricultural sector

Wilson Synchrotron Laboratory - Cornell University

Jun 2021 - Aug 2021

Laboratory Research Assistant

- Assisted engineers in upgrading the interlock and power systems of the Cornell synchrotron.
- Worked with power supplies, relay systems, interlocks and personnel safety equipment located in high radiation areas.

PROJECTS

Weather App.

- Created an interactive weather search app using data from OpenWeather API.
- Added search functionality using city names and illustrated weather conditions using images.
- Built with HTML, CSS, JS and OpenWeather API.

Image Filter

- Used Python to simulate the concept of image compression
- Explored nuances of graphic cards and one-dimensional list of pixels that lead to optimization.
- Manipulated RGB values of pixels to achieve desired effect

Maze Game

- Built an interactive 2D maze game by utilizing Dijkstra's shortest path algorithm..
- Included sound effects, game speed and multiple playgrounds.
- Built with Java and utilized the Java Swing GUI Library.

CAMPUS INVOLVEMENT

Battery Pack Lead, Cornell Hyperloop- Cornell University, Fall 2021- Present.

Engineering Peer Advising Team- Cornell University, Fall 2022