Nigusu Solomon Yenework

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Education

Cornell University, *Ithaca, NY*   Sep 2019 - June 2023

College of Arts and Sciences : major in Computer Science
- *Relevant Courses*: Obj oriented programming, Data Structures, Functional programming, Digital logic and computer organization, embedded systems, computer vision, Discrete structures, Calculus, Linear Algebra

African Leadership Academy, *Johannesburg, South Africa*   Sept 2017 – June 2019
- *Relevant Courses*: Entrepreneurial Leadership, African Studies, Calculus, Writing and Rhetoric
- *Distinctions*: Maths and computer science tutor, school representative in a STEM projects competition, Robotics club leader.

Skills and Projects

Technical Skills

- Programming Languages: Python, Ocaml, Java, Node.js, Express JS, React Native, C, C++, Bash, Javascript, HTML/CSS, vb.net
- Experience with: PHP, XML
- Language: Amharic, English

Programming Projects

- **Bunna**(In Progress): Bunna is a new social media app that is used to share only textual information.
  - developed using React Native.
- **Attendance**: Android app that enables clients(teachers) to take attendance of their students.
  - It uses SQlite to store students' information and record attendance.
- **School management software**: A windows software that enables teachers to record grades on their computer.
  - It uses the data entered to produce rank, comparison graphs, and print out transcripts.
- **Screen recorder**: A simple android app that makes a video file by recording the user's screen.
- **Hotspot messenger**: Uses hotspot and wifi to allow two users to send a text message to each other.

Relevant Experience

Computer Science Research Intern   Ithaca, NY Jun 2020 – 2021 Jun
- the research deals with developing the formal semantics of P4 Language backed by an independent reference implementation
- I developed a file system that uses python and Ocaml for the Petr4 web interface.
- Added a user interface that allows the web interface to run demo codes.

Leader of The Robotics Club   Honeydew, South Africa Sep 2018 – Jun 2019
- club leader and project designer
- designed our LIFI (using light to transmit information) project which we presented in science fair competitions.
- used an LED to transmit commands and a light sensor to receive commands on the other end.

Founder and Teacher at AddisCoder-Beta   Bahir Dar, Ethiopia Aug 2018 – Aug 2018
- founded a summer program that extended from a summer program by Jelani Nelson-Associate professor at Harvard University.
- organized a location and selected top students in the city
- taught Python and Algorithms courses given in 2nd-year university computer science programs.

Designer at The African Futures Project   Honeydew, South Africa Jan 2017 – Jun 2017
- Worked on a design to set up smart TVs in African Leadership Academy.
- These smart TVs were used to run the International Futures Software.

Founder and programmer at Ahaddu   Bahir Dar, Ethiopia Sep 2017 – Feb 2017
- designed and developed an android app(Attendance) using Java
- Used SQlite to store data and XML to design GUI
- Attendance was used by my high school to take class attendance.

Team leader at EV3 Robotics competition   Bahir Dar, Ethiopia Sep 2016 – Jun 2017
- Led a team that took part in an Ev3 robotics competition held in Bahir Dar, Ethiopia
- Built a robot that followed a line while detecting obstacles using the EV3 kit
- Won the competition.