RANSFORD ANTWI

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EDUCATION

University of Pennsylvania • School of Engineering and Applied Sciences

May 2020
Philadelphia, PA

- Pursuing a double major BSE in Electrical Engineering and Computer Science
- Pursuing an MSE in Robotics from The GRASP Lab at the University of Pennsylvania
- Relevant coursework: Operating Systems, Data Structures & Algorithms, Software Engineering, Engineering Entrepreneurship
  Control for Autonomous Robots, Applied Machine Learning, Circuits, Engineering Probability, Embedded Systems

WORK EXPERIENCE

Software Engineering Intern • Microsoft (OneDrive + SharePoint)

June - August 2019
Seattle, WA

- Created a Tenant heatmap service to enable data driven code rollout
- Solely responsible for entire service including REST API design, implementation and Web App
- Developed the formula used to generate theheatmap and scaled the service to manage over 2M customers
- Tools: C#, SQL, Azure App Services, Razor, .NET, REST

Business Strategy Consultant • Astrome Technologies
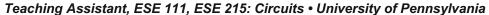
May - June 2019
Bangalore, India

- Worked with Astrome as part of the first cohort of Wharton India Entrepeurship Fellows
- Developed a new market strategy into the African Telecommunications Market

Co-founder, Developer • SilkBlu Technologies, LLC (silkblu.com)

Jan. 2019 – present
Philadelphia, PA

- Leading a student-run software development and consulting firm

Software Engineering & Product Manager Intern • Microsoft (OneDrive + SharePoint)

June - August 2018
Seattle, WA

- Worked in a group of 3 interns to develop and implement a strategy to remove stale features
- Presented and implemented Auto-Freeze solution which increased CPU usage by 1%

Teaching Assistant, ESE 111, ESE 215: Circuits • University of Pennsylvania

Jan. 2017 – present

- Responsibilities include weekly office hours, grading and personalized lab tutoring
- The classes teach students circuit fundamentals, circuit theory and critical lab skills

PROJECTS | EXTRACURRICULAR ACTIVITES

Calorie Life Cam • ESE 350 - Embedded Systems(Github | Devpost)

April 2019

- Built a miniature wearable camera to aid medical patients with documenting their diets
- Project involved building a custom PCB, integration with IBM watson, esp32 microcontroller, WiFI, razor IMU unit

MertApp • CIS350 – Software Engineering (Github)

April 2019

- Worked in a team of 4 to build a fully functional Android App as well as a Web Client to allow users to send police requests.
- Integrated with Google Maps API to alert the user of when they are in close proximity to an active/recent police incident
- Tools: Java, JavaScript, Android, MongoDB

PennOS • CIS380 - Operating Systems

November 2019

- Worked in a team of 4 to implement a user-level Operating System simulation based on UNIX preemptive signaling and ucontexts.
- Responsible for the FIleSystem which was based on a FLATFAT implementation.
- Tools: C, process life-cycle, priority scheduling, signaling, file-systems, and shell development, kernel-/user-level separation

Bot Ally • Desktop Application(www.botallyaio.com/)

- Built a SneakerBot ToolKit for a client as an all encompassing tool to manage a user's different bot profiles.
- Implemented bot profile conversion and activity generation features using ChromeDriver and Selenium.
- Tools: Java, Python, ChromeDriver

EXTRACURRICAR ACTIVITES

President • Society of African Internationals at Penn (upennsaip.com/)

Aug. 2019 – present

- Leading a group of highly motivated students passionate about the development of Africa

Perry World House Student Fellow • Perry World House

April. 2019 – present

- Each year, 25-30 Fellows are competitively selected from Penn's four schools

Technology Director • Wharton Africa Business Forum (https://forum.whartonafrica.com/)

Aug. 2017 – November 2017

- Developed mobile application for conference attendees

SKILLS

- Java, C#, C/C++, Android, OCaml, Python, Unix/Linux, R
- NodeJS, HTML, Azure, Heroku
- SQL, MongoDB. Google Cloud Services, FireBase
- Matlab, Altuim, Android Studio, LTSpice, OpenCV

AWARDS & ACHEIVEMENTS

- Duke of Endinburgh International Award
- Youth Awards Programme National Essay Writing WInner
- Wharton India Entrepreneurship Fellow
  - One of 13 students selected