Ivens Applyrs

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EDUCATION:

December 2017   **University of Florida**, Gainesville, Florida
Bachelor of Science in Computer Engineering

RESEARCH INTERESTS:

Human-Computer Interaction (HCI), Brain-Computer Interface (BCI), User Experience (UX), Machine Learning, Interactive Computing, Wearable Technology, Computer Science Education, Educational Technologies

PUBLICATIONS:

Conference Papers (Refereed)

[C.1]   Crawford, C.S., Andujar, M., Jackson, F., **Applyrs, I**., & Gilbert, J.E. (2016). *Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals*. In Proceedings of the 2016 American Society for Engineering Education Southeastern Section (ASEE SE), Tuscaloosa, AL, March 13-15, 2016.

Research Papers

[P.1]   **Applyrs, I.**, Williams, E., Desai, B., Mendoza, J., & Gilbert, J.E. *Consumer grade Brain Computer Interfaces as an augmented security measure for authentication*. Paper currently in progress.

PRESENTATIONS:

2017	**Poster** presentation of "*Consumer grade Brain Computer Interfaces as an augmented security measure for authentication*" [P.1] at the University of Florida (UF) undergraduate research symposium
2016	**Oral** presentation of "*Consumer grade Brain Computer Interfaces as an augmented security measure for authentication*" [P.1] at the University of Maryland Baltimore County (UMBC) McNair conference
2016	**Poster** presentation of "*Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals*." [C.1] at the Southeastern Association of Educational Opportunity Program Personnel (SAEOPP) McNair
2016	**Poster** presentation of "*Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals*." [C.1] at the Florida Undergraduate Research Conference (FURC)

RESEARCH EXPERIENCE:

May 2016 - Present	McNair Scholars Program, University of Florida:

- Poster Presentation of "*Using a Visual Programing Language to Interact with Visualizations of Electroencephalogram Signals*." [C.1] at SAEOPP
- Research Methods course on conducting practical research

Jun 2016 – Aug 2016	Distributed Research Experiences for Undergraduates (DREU)

- Write initial draft of "*Consumer grade Brain Computer Interfaces as an augmented security measure for authentication"* [P.1]
- Develop and distribute annotated bibliography of literary works relevant to Brain Computer Interfaces (BCIs) to team members
- Test BCI headsets (Muse, Emotiv Insight, & Emotiv Epoch) on their practicality by identifying available testing software, device specifications, and efficacy for acquiring data.
- Develop unanimity across research project by assigning research tasks, tracking progression of project, and communicating status of project to Principal Investigator (PI).

Apr 2015 – Present	Human-Experience Research Lab, University of Florida: Undergraduate Research Assistant

- Develop Client-server model for extracting Electroencephalogram data using Node.js
- Performed literature review pertinent to Brain-Computer Interfaces (BCI)
- Completed Collaborative Institutional Training Initiative (CITI) training for Institutional Review Board (IRB)

Jan 2014 – Jan 2016	Florida-Georgia Louis Stokes Alliance for Minority Participation (FGLSAMP)

- Research assistant under Dr. Christian Grant conducting research in data science. Specifically, analyzing the varying difference between social communications on Twitter between black and white users.
- Review code written in C used for data mining

INDUSTRY EXPERIENCE:

August 2015 – February 2017	Dean of Students (Gainesville, FL): IT & Database Manager

- Update, Modify, and Design the Dean of Student's website using the Expression Engine content management system (CMS).
- Backend support of marketing and design team front end designs using HTML, PHP, SQL, and JavaScript
- Develop web applications for the department of Student Affairs using frontend SQL client HeidiSQL and backend web development languages

May 2014 - August 2014   General Electric (Melbourne, FL): Signal Systems Engineering Intern

- Performed integration test of wayside control system by verifying and testing source code written in C
- Collaborated with interns to plan and execute "United Way Silent Auction" that raised approximately $2,600 in donations
- Traced alarm and error IDs in C to satisfy a direct customer request.

June 2013 - August 2013   Johnson & Johnson (Jacksonville, FL): IT Intern

- Developed a basic "Color Blindness Test" Android App for early non-medical indication of color blindness.
- Tested diverse programming platforms, including XML, Flex, Java, and C# coding languages, to assist JNJ developers with reviewing completed vendor source code
- Created an initial proof of concept that aided the launch of the Kinect face recognition project

LEADERSHIP EXPERIENCE:

May 2014 - October 2014   National Society of Black Engineers (Region III): ***Finance Chairman***

- Facilitated corporate relations in the South East division of NSBE comprising FL, GA, AL, MS, TN, KY, & the Caribbean
- Trained Chapter leaders on effective fundraising and corporate solicitation strategies
- Generated over $30,000 in corporate solicitations for Region III

August 2013 - May 2014   National Society of Black Engineers (UF Chapter): ***Fundraising Director***

- Coordinated five fundraising events that raised $1,000 towards chapter financial support
- Led a public relation, project management, and sales fundraising committee

Aug 2013 - May 2014   UF Student Government Leadership Development Cabinet: ***Assistant Director***

- Coordinated the development of the rising organization Gator Leadership Connection (GLC)

SCHOLARSHIPS/AWARDS:

2016	John W. and Mittie Collins Engineering Scholarship Fund
2014-2015	Rhonda D. Holt Endowment for Academic Excellence
2014	African-American Forum General Electric Scholar
2014	Cunningham Scholarship Endowment
2013	Ralph Sias Scholarship Fund
2013	Wheat Engineering Endowed Scholarship

AFFILIATIONS / MEMBERSHIPS

May 2016	McNair Scholar
November 2015 – Present	Alpha Phi Alpha Fraternity, Inc
January 2014- May 2016	FGLSAMP Scholar
August 2012 – Present	National Society of Black Engineers

TECHNICAL SKILLS:

- C++, C
- Java
- JavaScript
- Bootstrap
- Balsamiq (Wireframes)

- HTML
- PHP
- SQL
- Node.js, Mean.js, Mongo DB
- Heidi SQL

- MatLab
- AUTOCAD
- AUTODESK
- LabVIEW
- Content Management Systems (WIX, expression engine, etc)

LANGUAGES:

- Conversational in Haitian Creole

SOFT SKILLS:

- Project Management

- Delegation

- Team Leadership