Maya S. Kelly

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Objective

Computer Engineering major experienced with compliance testing within finance and utilizing Linux to create Python- based analysis software. Interested jobs within cybersecurity, program managment, IT, or software engineering.

Education

Georgia Institute of Technology | Atlanta, GA

August 2016 – Present Expected Graduation, May 2021

Bachelor of Science in Computer Engineering

Minor: Law, Science, and Technology

May-August 2017

University of Memphis | Memphis, TN

Transfer with 7 Credit Hours

Skills

Programming: Python, C, C++, MATLAB, JavaScript, CSS, HTML, Q

Platforms: Linux (Ubuntu), Windows Subsystem for Linux

Hardware: ARM mbed microcontroller, FPGAs, oscilloscope, logic analyzer **Software:** Altera Quartus II. NI LabVIEW. OpenCV. GitHub. Microsoft Office

Professional Organizations: National Society for Black Engineers (NSBE), Georgia Tech Society of Women Engineers (SWE),

International Thespian Society, Women in Electrical and Computer Engineering (WECE), Kappa Alpha Theta

Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)

Languages: English (native), French (novice)

Experience

Bank of America | New York City, NY

June - July 2020

Central Risk Book Intern /Global Banks and Markets

- Completed 4 stock market data analytics projects in the language Q and utilized Python's Pandas
- Coordinated with various departments to work on a data literacy project and an environment, social, and Corporate Project (ESG) project
- · Presented on most efficient and cheapest times to trade stocks based on Rolle's Algorithm and liquidity models
- Collaborated with internal trading desk to understand necessary specs for a market sales input GUI

Walmart Inc. | Bentonville, AR

IT Audit Intern / Global Technology Audit

June – August 2019

- Performed 3 automated and manual internal security controls compliance tests weekly in order to examine corporate controls' compliance with the Sarbanes-Oxley Act (SOX)
- · Validated all SOX compliance testing through various audit workpapers documented in Excel
- Collaborated in an agile environment with internal auditors, external auditors, and executives to test the company's regulatory controls and to present compliance findings from the review of internal controls
- One of the few interns selected to travel nationally to complete highly detail-oriented operational audits on approximately 20
 Walmart stores
- Assessed risk through both automated and manual penetration testing for internal controls within the various Walmart divisions
- Proposed substantive tests in the IT, compliance, financial, and operational space based on risk encountered from previous testing and walkthroughs
- Complied with federal, state, and local security and legal requirements by studying existing and new security legislation

Robotic Musicianship Deep Score | Atlanta, GA

January – May 2019

Research Assistant / Visual Department

- Collaborated with a team to design a working software application prototype that analyzes emotion using color within film.
- Created and optimized Python code that performs a color-emotion association analysis on movie frames based on color theory psychological studies
- Researched film color techniques, color theory, color emotion associations, and music emotion associations in order to optimize the emotional analysis software for the purposes of aiding in creating an appropriate computer-generated musical score

• Presented twice on the progress and completion of project to colleagues and supervisors; the prototype resulted in the Deep Score application having a second verification of emotion before completing a musical score

Projects

Autonomous Target and Circle FPDA Digital Design Lab

Fall 2019

Programmed an FPGA-controlled robot to target objects and circle around them.

- Created and programmed (VHDL) the circling algorithm for the robot by utilizing sonar sensors and odometry drift correction
- Presented design proposal and wrote an analytical, data-driven report
- Proposed and completed the circling strategy using the arctan() function to create a fluid motion into the full circling routine

Musical Marvin : Moving and Singing Electrical Sculpture

Fall 2020

ECE Design Fundamentals

Designed and built an electronic sculpture that makes movements and produced notes based on distance objects.

- Created and programmed (C++) sculpture to make 8 head movements and 8 sounds when an object was at various distances away from the time-of-flight sensor
- Presented design proposal, bill of materials, team agendas, and a final report of the creation and execution
- Designed and fabricated the acrylic shell of electronic sculpture

Relevant Coursework

Digital Design Lab- Design and implementation of digital systems, including a team design project. CAD tools, project design methodologies, logic synthesis, and assembly language programming.

Programming for Hardware/Software Systems- Object-oriented software methods for engineering applications. Numerical analysis methods; simulations and graphical presentation of simulation results; analysis of numerical precision through programming projects.

Programming for Hardware/Software Systems- Cloud computing technologies, computation models, and applications; design methodologies for cloud applications; use of cloud-based languages and tools in developing advanced applications.

Introduction to Computer Law- Introduction to copyrights, patents, trade secrets, trademarks, and commercial law pertaining to computer software and hardware.

Math Foundations of Computer Engineering- Fundamental concepts in discrete mathematics and their efficient realization via algorithms, data structures, computer programs, and hardware Discussion of engineering and computational applications.

Introduction to Educational Technology- Introduction to the theory and practice of educational technology. Covers learning theory applicable to educational technology. Explains major research findings.

Information Security Strategies and Policies- Information security vulnerabilities and risks; legal, cost, privacy, and technology constraints; derivation of strategies; technical and procedural means of achieving desired results.

Privacy, Technology, Policy, and Law - a multi-disciplinary approach to privacy, a topic of great interest in the technology, policy, ethics, law, and business realms.

Leadership

Women in Electrical and Computer Engineering (WECE) | Atlanta, GA President / Executive Board

May 2020- Present

- Acts as an external spokesperson for Women in ECE
- Created a hybrid/virtual meeting and event structure
- Implemented a new executive board recruitment architecture
- Oversees all processes of student organization and student/corporate relations

Women in Electrical and Computer Engineering (WECE) | Atlanta, GA Publicity Chair / Executive Board

August 2017 - May 2020

- Designed all digital graphics for the organization
- Promoted the organization's initiative through social media posts and physical postings
- Coordinated with corporate sponsors and general body members on a weekly basis
- Maintained the content and security of the organization's website