Bolaji Makinde-Odusola

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EDUCATION

California Polytechnic State University, San Luis Obispo, CA — Expected Graduation: **December 2021**
Bachelor of Science Electrical Engineering, Computer Science Minor — ($100,000 Merit Based Full Ride scholarship)

PROGRAMMING LANGUAGES AND SOFTWARE

Programming Languages: C# (4 years), Java (2 years), Python (1 years), SystemVerilog (6 months), HTML/CSS (6 months)

Software: Unity (8 years), Visual Studio (4 years), MATLAB (2 years), AR/VR (1 year) Bootstrap (6 months)

SELECTED PERSONAL PROJECTS

Personal Website: BolajiMakinde.com **2020**

- Developed Personal Website containing my portfolio that can be filtered by selecting skill icons

Open Source Chess Engine Development: **2018-2019**

- Created a platform for answering and analyzing statistical based chess questions
- Led and taught a team of 3 by organizing meetings and assigning work to develop several chess engines
- Used bitwise operations for visualized AI and neural network algorithms on the user interface
- Integrating Photon Voice SDK to allow for speech-based play and simulation

Traveling Salesman Problem Convex Hull Triangulation Algorithm: **2016-2017**

- Researched and theorized a convex hull approximation of the Traveling Salesman Problem
- Developed a 100% physically based model for calculations by using scalable measuring algorithms
- Used research and high levels of geometry to come up with an algorithm for the Traveling Salesman Problem
- Translated **JavaScript** project into **C#** as measured by **5000% reduced calculation speeds** through modular updates

Unity Multiplayer FPS Game Development: **2012-2019**

- Set up and deployed complex techniques needed to create a reliable network system in **C#** and **JavaScript**
- Tailored and invented optimization methods by using optimized data structures for different game instances
- Self-taught 4 languages and have experience translating self-developed project designs into code

WORK EXPERIENCE

Boeing, Virtual: Electronic Products Intern **Jun-Sept 2020**

- Constructed visual diagrams for incorporating equipment into aircraft electronic systems
- Diagnosed, analyzed, and corrected design flaws in Electronic Equipment
- Traced signals through Boeing hardware drawings for other engineers to track power distribution

Boeing, Oklahoma City, OK: Electromagnetic Effects Intern **Jun-Sept 2019**

- Published and certified 3 Quality Control Documents for technology meeting internal and DoD standards
- Collaborated with multiple departments in developing plans for aircraft electronic system modifications
- Organized and tracked revisions for the Electronic Products team in important release documents for aircrafts
- Researched and compiled data into Boeing Libraries for new modification projects

LEADERSHIP AND TEAM BASED EXPERIENCE

National Society of Black Engineers (NSBE): Regional Executive Board, Vice Chairperson **April 2020-Present**

- Manage a 23-person board and oversee all activities of 4 zones (Finance, Communication, Membership, Programs)
- Planned the 2020-2021 Region VI Leadership Conference for over 100 participants as the head of a Taskforce
- Track all action items and guide the board in implementing the Region VI Chairperson's Vision

National Society of Black Engineers (NSBE): Regional Executive Board, Parliamentarian **2019- 2020**

- Work with a team of 21 talented students, professionals, and advisors to operate NSBE on the west coast
- Organized and headed a town hall to vote on and discuss issues facing black engineers for several hundred people
- Oversee and engage with all NSBE chapter senators in the 13 most western states
- Point of Contact for NSBE Bylaws and Parliamentary Procedure
- Helped to ensure 100% Voter Turnout on Regional and National Ballot

DR.VR: DoctorVR.ml **2020**

- Work with a team of 3 on implementing a global health care accessibility program through XR and machine learning
- Selected to participate in 2020 John Hopkins Global Healthcare Design Competition
- Implemented a multitude of accessibility features including speech recognition and visibility enhancements