Bolaji Makinde-Odusola

Bakersfield, CA   661-319-1558   bmakinde@calpoly.edu
https://www.linkedin.com/in/bolaji-makinde-odusola   https://github.com/BolajiMakinde

EDUCATION

California Polytechnic State University, San Luis Obispo, CA   Expected Graduation Date: **June 2021**
Bachelor of Science **Electrical Engineering**, **Computer Science Minor**   **Major GPA 3.3**

PROGRAMMING LANGUAGES AND SOFTWARE

Programming Languages: C#, C++, Java, JavaScript, Python
Software: Unity, MATLAB, Blender, Google SketchUp, 3DS Max, Maya, Unreal, OpenGL, Visual Studio, AutoCAD, DipTrace

WORK EXPERIENCE

Boeing, Oklahoma City, OK: Electromagnetic Effects Intern under Keith Chappell   **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

PERSONAL PROJECTS

Open Source Chess Engine Development: **2018-Present**
- 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-Present**
- 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
- Reduced overall 3D pathfinding calculation and loading time by 80% while adding instant dynamic priority system

HONORS AND AWARDS

- **1st Place out of 25 teams** of Track for SLOHacksGO with a public speaking simulator and assistant   **Nov 2019**
- Elijah McCoy African American Engineering $100,000 Scholarship for 5 years (Merit Based Full-Ride)
- Project Black Excellence in Scholarship and Teaching Award (Leadership)

LEADERSHIP AND TEAM BASED EXPERIENCE

National Society of Black Engineers: Regional Executive Board, Parliamentarian   **Mar 2019-Present**
- Organized the first Fall Regional Conference vote in the past 5 years of Region VI history
- 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

JPMorgan Code for Good Hackathon, Jersey City, New Jersey   **Sept 2019**
- Used **HTML** and **CSS** to embed a constructed external application on a developed multi-platform website
- Created scalable framework for integration of other external applications

CSUB STEM Summer Program, Bakersfield, California   **May-Aug 2016**
- Devised script in **C++** to optimize robotic arm maneuvering speed
- Launched mobile web interface for tracking and manipulating real-time radio frequencies and eliminating noise

INTERESTS AND INVOLVEMENT

Organizations: Color Coded, Chess Club (Secretary), Game Development Club
Hackathons: HackDavis, SLOHacksGo, YHacks, DubHacks, JPMorgan Code for Good
Poly Cultural Weekend Host and Volunteer, San Luis Obispo, CA   **2018-Present**
Chess Opening Theory Instructor, Bakersfield, CA   **2015-Present**
International Chess Club Opening Teacher, Bakersfield, CA   **2018**
Dartmouth Bound Program, Dartmouth University, Hanover, NH   **2016**