

Bolaji Makinde-Odusola

Bakersfield, CA

661-319-1558

bmakinde@calpoly.edu

BolajiMakinde.com

LinkedIn and GitHub: BolajiMakinde

EDUCATION

California Polytechnic State University, San Luis Obispo, CA
Bachelor of Science **Electrical Engineering, Computer Science Minor**

Expected Graduation Date: **June 2021**
Major GPA **3.2**

PROGRAMMING LANGUAGES AND SOFTWARE

Programming Languages: C#, C++, JavaScript, Java, Python, SystemVerilog, HTML, CSS

Software: Unity, Bootstrap, XR, MATLAB, Visual Studio, AutoCAD, LTSpice, DipTrace, Blender, Google SketchUp

SELECTED PERSONAL PROJECTS

Personal Website: BolajiMakinde.com

2020

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

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

WORK EXPERIENCE

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

HONORS AND AWARDS

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

Nov 2019

LEADERSHIP AND TEAM BASED EXPERIENCE

National Society of Black Engineers (NSBE): Regional Executive Board, Parliamentarian

Mar 2019-Present

- 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

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

Faculty Research

2020

- Researching with a professor to discover what class of Machine Learning algorithms are the best at Spades in **Python**

INTERESTS AND INVOLVEMENT

Organizations: Color Coded, Chess Club (Secretary), Game Development Club

Hackathons: HackDavis, SLOHacksGO, YHacks, DubHacks, JPMorgan Code for Good, Camp Poly Hacks

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