Aaron Shields

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EDUCATION

University of Southern California   Los Angeles, CA
Bachelor of Science in Computer Science & Business Administration   *August 2020 – May 2024*
- Coursework: Data Structures & Object Oriented Design (C++), Algorithms, Applied Python, Discrete Mathematics & Theory of Computing, Business Statistics, Organizational Development, Software Engineering

Winston Churchill High School   Potomac, MD
High School Diploma | GPA: 3.79/4.31   *August 2018 – May 2020*

EXPERIENCE

Software Engineer Intern   May 2023–August 2023
Oracle Corporation - Health and AI, Security Architecture Team   *Redwood Shores, CA*
- Utilized Quarkus framework to create a client module, allowing our product to speak to the product interface
- Leveraged knowledge with Maven to resolve dependency conflicts for REST API Client interface
- Created internal questionnaire app using the Oracle APEX service
- Created Terraform pipeline using Jenkins to deploy systems to the OCI network

Software Engineer Intern   May 2022–August 2022
Oracle Corporation - Global Business Unit   *Redwood Shores, CA*
- Spearheaded a legacy-to-modern migration strategy for over 30 client database systems in a span of three months
- Leveraged knowledge in Git, Cloudlab, Jira, Linux, and Java to complete upgrade of company databases
- Formulated a proof-of-concept document and PowerPoint showcasing improved performance from upgrade

Viterbi Career Ambassador   August 2021–Present
USC Viterbi School of Engineering   *Los Angeles, CA*
- Conducted one-on-one career counseling sessions with students, offering guidance and advice on career paths.
- Developed and implemented career-related programming, and conducted technical mock interview sessions.

PROJECTS

React Web App | *ReactJS, CSS*   Spring 2023
- Utilized ReactJS framework to create a web app for USC students, advertising free events on campus

Amazon Database Simulator | *C++*   Fall 2022
- Created a back-end program that mirrors Amazon's product platform, allowing the user to purchase products
- Utilized knowledge of data structures (Stack and Queue) to keep track of products and user purchases
- Added practical functionality features such as item name changes, updated inventory tracking, and price updates

World Cup Predictor | *Python, Flask, HTML/CSS, NumPy, Pandas*   Fall 2022
- Developed machine learning program using data from previous World Cups to predict 2022 winner
- Implemented HTML using Flask to create front-end web experience for user and navigation between web pages
- Created interactive charts using Scikit-Learn and Matplotlib to show team rankings and estimated win percentage

LEADERSHIP & INVOLVEMENT

Software Developer   Jan 2023 –Present
Scope USC (Computer Science Student Organization)   *Los Angeles, CA*
- Created React web app advertising free campus events for USC students over course of a semester

Chapter Senator   August 2021–August 2022
National Society of Black Engineers (USC Chapter)   *Los Angeles, CA*
- Developed semester curriculum, performed community service events such as teaching high schools students to code, and represented chapter at NSBE conference in Anaheim, CA

TECHNICAL SKILLS

Languages: C++, Java, Python, LaTex, HTML/CSS, React, NodeJS, MySQL
Technologies/Frameworks: Git, NumPy, Pandas, Scikit-Learn, Flask, Docker, Maven, Quarkus, Terraform, Jenkins