

ROBERT LERIAS JR.

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EDUCATION

University of California, Riverside

Sept 2019 - Jun 2023

Bachelor of Science in Computer Science, Cum Laude

GPA: 3.72

TECHNICAL SKILLS

Languages/Frameworks: C++, C, Python, React, Next.js, TailwindCSS, HTML, CSS, Javascript, C#

Tools: Git, Github, Visual Studio Code, Figma, Adobe Photoshop, PowerBI, MixPanel, HotJar, Aesprite, Unity, MongoDB

EXPERIENCE

Anheuser-Busch

St. Louis, Missouri

Technology Trainee Program Intern

June 2022 - August 2022

- Assisted wholesalers in the North American Zone through Anheuser-Busch's transition from Salesforce to BeerTech's new OnePortal software by creating 3 standard operating procedures that covered Forecasting, Ordering, and Appointments
- Organized user data in PowerBI, MixPanel, HotJar, and DataDog dashboards that aided both developer and functional teams in proceeding with production rollout
- Developed and designed a Support Tab using React, TailwindCSS, and Figma that centralized user experience on OnePortal

System Optimization & Computer Architecture Lab

Riverside, California

Undergraduate Researcher and Intern

March 2021 - August 2021

- Focused on performance efficiency by optimizing existing matrix-multiplication operations on GPUs and CPUs using a Directed Acyclic Graph, or DAG, based implementation of Strassen-Winograd's Algorithm
- Increased matrix-multiplication runtime by 8.0x by using the DAG Strassen-Winograd Algorithm on GPUs
- Contributed to research presented at The International Conference for High Performance Computing, Networking, Storage, and Analysis in St. Louis, Missouri

PROJECTS

NOVO | *Next.js, TailwindCSS, Figma, MongoDB*

May 2023 - Ongoing

- Led a team of 4 individuals in the development and implementation of NOVO, a dating web application focused on fostering connections with individuals seeking new experiences
- Designed and implemented captivating user interfaces and intuitive user experiences using Figma
- Developed both frontend and backend functionalities using Next.js, TailwindCSS, and MongoDB for key features including Feed, Activity Profiles, Profile Creation, Reviews, and Ratings

R'Parts | *Next.js, TailwindCSS, Figma*

Apr 2023 - Ongoing

- Led design initiative in a team environment and designed low-fidelity wireframes and interactive prototypes on Figma for a student-based second-hand marketplace for computer hardware
- Developed multiple web pages using Next.js and TailwindCSS including Landing and Sell

BeatDrop | *Next.js, TailwindCSS, Figma, Adobe Photoshop*

Jan 2023 - Ongoing

- Led design initiative in a team environment and designed low-fidelity wireframes and interactive prototypes on Figma for a geographic-based music-sharing social media
- Created reusable components, including song listing and team profiles, that streamline development process and improve website performance using Next.js and TailwindCSS

Bob&Rod's: VR Carnival Experience | *C#, Unity*

Nov 2022 - Dec 2022

- Designed a three-dimensional VR environment on Unity to simulate 3 carnival experiences on the Oculus Rift
- Integrated 5+ C# scripts responsible for environment behavior, gameplay functionality, and controller operations

PUBLICATIONS

Carodan M., Chow M., **Lerias R.**, Ranganath K., Wong D. (2021). "Energy Efficient Task Graph Execution Using Compute Unit Masking in GPUs". *The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC21)*.