BIANCA HIEW

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EDUCATION

University of Michigan (Ann Arbor, MI)
Bachelor of Science in Engineering, Computer Science Major, Music Minor
Cumulative GPA: 3.70/4.00 *Graduation: December 2024*
Awards: University of Michigan College of Engineering Scholarship of Honor (2021), University Honors, Dean's List
Relevant Coursework: Data Structures and Algorithms, Computer Organization, Foundations of Computer Science, Discrete Mathematics, Linear Algebra, Computer Security, Databases, Web systems, AI
Hong Kong University of Science & Technology (Clearwater Bay, Hong Kong) *January 2024 – May 2024*
Bronx High School of Science (New York, NY)
Cumulative GPA: 4.00/4.00 *Graduation: June 2021*

EXPERIENCE

Software Engineer Intern | Oracle Cloud Infrastructure *June 2024 – September 2024*
- Automated anomaly detection of virtual cloud network data plane metrics using machine learning and OCI metric query language functions
- Enhanced error detection accuracy within deployments through advanced machine learning techniques
- Monitored performance through Grafana dashboards and utilized OCI metric query language functions
- Analyzed data by accessing remote smartNICs and regions, ensuring robust performance

Software Engineer | Subaru Multidisciplinary Design Program *January 2023 – December 2023*
- Engineered a self-opening door system utilizing multi-threaded computer vision and machine learning to achieve successful facial detection and eye tracking
- Collaborated with multidisciplinary sub-teams 6 hours per week to iterate our design of an enhanced accessibility system
- Developed and validated a working prototype for system to accommodate 90th percentile male passenger

Information Technology Intern | The Estée Lauder Companies *June 2023 – August 2023*
- Prioritized and transformed behavioral based safety data from fiscal year 2021 and developed interactive dashboard visualizations with Power BI and SAP Analytics Cloud
- Highlighted proprietary statistics and calculations in business training data sets, addressing issues within regional manufacturing sites, resulting in improved operational efficiency and employee safety
- Conducted regular stakeholder meetings to gather critical feedback to refine dashboard usability, utilized Jira and Confluence for project organization

EXTRACURRICULARS / PROJECTS

Avionics Lead & Business team member | M-Fly Student Design Team *January 2022 – May 2023*
- Leveraged Git-Hub, Ardupilot, Arduino, transmitters/electronics, and aided general woodwork/manufacturing of aircraft
- Implemented and tested electronic systems of the MX-7 aircraft resulting in 100% success rate in payload deployment
- Organized group teaching sessions, managed social media with 300+ followers, graphic design, event logistics and budget planning, outreach with international teams, communicating with other departments
- Placed 6^{h} overall out of 14 teams in 2023 SAE Advanced Class Aero East Competition

Web Designer | VOID Tech Consulting Club *October 2021 – January 2022*
- Redesigned and updated website layout and formatting for Anton Anderssen Travel Inc. company
- Worked alongside clients and design team, conducted user testing surveys, and created wireframes and mockups in Figma

Game Development using Unity | Personal Projects *September 2020 – June 2021*
- Developed 8 games in Unity using C# scripting and blender 3D modeling, published projects to itch.io (**https://hiewb.itch.io/**)
- Implemented interactive user interface, multiplayer compatibility, AI opponents, and immersive 1st person gameplay
- Earned 2nd place in Bronx Science Hackathon for creating first person recycling simulator

SKILLS

C++, Python, C, C#, Java, SQL, Server/client side Programming, HTML/CSS, AWS, React, JavaScript, Computer Networking, Unity (game engine), Power BI, SAP Analytics Cloud, Grafana, Confluence, Jira, Wireframes, AutoCAD, Blender

ACTIVITIES

JPMorgan Chase & Co. Software Engineering Virtual Experience *June 2022*
FIRST Robotics Team 2265 (FeMaidens), *Programming and Strategy Department Member* *September 2019 – June 2021*