SEAN BARLISAN

106 Seminary Street, Bergenfield, New Jersey, 07621

📞 201-981-9979 ✉ smbarlisan@gmail.com 🔗 linkedin.com/in/smbarlisan

Education

New Jersey Institute of Technology | **Sep. 2020 – May 2024**
Bachelor of Science in Computer Engineering | *Newark, New Jersey*

Relevant Coursework

- Circuits and Systems
- Linear Algebra
- Differential Equations
- Computer Comm.
- TCP/IP Networking
- Database Management
- Data Structures
- Computer Architecture

Experience

MSC Industrial | **May 2023 – July 2023**
DevOps Intern | *Melville, New York*

- Pioneered the creation of a cloning coding repository, optimizing collaborative coding efforts and ensuring the integrity of the company's coding infrastructure.
- Engineered enhancements to existing Virtual Machine hardware, resulting in a significant 20% cost reduction while maintaining optimal performance.
- Implemented Jenkins to establish a seamless continuous integration service, automating the entire process of deploying the latest build code and test files, executing comprehensive tests, and generating daily reports on performance.
- Executed monthly image deployments to maintain software consistency and security updates for the e-commerce platform, ensuring sustained performance and fortified defenses against potential threats.

Varsity Tutors | **March 2022 – May 2024**
Private Tutor | *Bergenfield, New Jersey*

- Instructed students in tackling complex concepts through detailed explanations and practice exercises, fostering comprehension and mastery of challenging material.

Projects

Machine Learning Irrigation System | *C++, Google Firebase, Google Cloud Platform, SQL, AutoCAD* | **March 2024**

- Developed a program utilizing Predictive Least Squares Regression for prediction, enabling precise zoning of water usage and its implications for plant health.
- Utilized SQL and wireless transmission protocols to efficiently populate a database, ensuring swift and reliable data transfer.
- Hosted an application and program seamlessly on Google Cloud Platform infrastructure, ensuring optimal performance and scalability.

Sound Sensor Vibration Belt | *C++, AutoCAD* | **April 2023**

- Engineered a directional sound vibration belt to augment audio experiences for individuals with hearing impairments.
- Leveraged statistical analysis and Arduino code, we optimized performance and data processing capabilities.
- Crafted circuit casings using AutoCAD and Creo software, employing cutting-edge laser cutting and printing technologies for unparalleled precision and durability.

Technical Skills

Languages: C/C++, Python, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Google Cloud Platform, Oracle Cloud, Microsoft Azure, Kubernetes, Terraform
Technologies/Frameworks: Linux, Jenkins, GitHub, GitLab, Jira

Leadership / Extracurricular

Filipinos in Newark Engaging in Sociocultural Traditions | **Spring 2022 – Spring 2024**
President | *New Jersey Institute of Technology*

- Coordinated culturally immersive events aimed at fostering a deeper understanding and appreciation of Filipino heritage within East Coast communities.
- Led fundraising efforts resulting in a substantial donation to charity, demonstrating strong leadership and commitment to philanthropy.
- Effectively secured funds and grants to bolster organizational programs, optimizing resources for impactful and sustainable initiatives.