

# SEAN BARLISAN

106 Seminary Street, Bergenfield, New Jersey, 07621

📞 201-981-9979 ✉️ [smbarlisan@gmail.com](mailto:smbarlisan@gmail.com) [in linkedin.com/in/smbarlisan](https://www.linkedin.com/in/smbarlisan)

## Education

### New Jersey Institute of Technology

*Bachelor of Science in Computer Engineering*

**Sep. 2020 – May 2024**

*Newark, New Jersey*

## Relevant Coursework

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

## Experience

### MSC Industrial Supply

*DevSecOps Engineer*

**July 2024 – Present**

*Melville, New York*

- Engineered enhancements to existing Virtual Machine hardware, resulting in a significant 20% cost reduction while maintaining optimal performance.
- Refactored Jenkinsfiles to establish a seamless continuous integration service while improving the deployment of the latest build code enhancing the deployment times by 40%.
- Executed monthly operation system deployments to maintain software consistency and security updates for the e-commerce platform, ensuring sustained performance and fortified defenses against potential threats.
- Containerized legacy .war files by converting them into Dockerfiles for streamlined deployment and scalability, permitting us to make deployments 30% faster.
- Configured a Disaster Recovery instance for Product Discovery Elastic Search, ensuring data resilience and system availability in case of failures.

### MSC Industrial Supply

*DevSecOps Engineer Intern*

**May 2023 – July 2023**

*Melville, New York*

- Pioneered the GitLab on-prem code repository, housing 60% of the e-commerce API and UI applications
- Refactored Virtual Machine Terraform files to reduce costs by 10%

## 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 with 70% accuracy.
- 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 with minimal cost.

### 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, Golang, Groovy, HTML, CSS, JavaScript, PostgreSQL

**Developer Tools:** VS Code, Google Cloud Platform, Oracle Cloud, Microsoft Azure, Kubernetes, Terraform

**Technologies/Frameworks:** Linux, Jenkins, Docker, GitHub, Bitbucket, GitLab, Wiz, Jira

## Leadership / Extracurricular

### Filipinos in Newark Engaging in Sociocultural Traditions

*President*

**May 2022 – May 2024**

*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.