Sean Barlisan
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Education

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

Relevant Coursework

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

Experience

System Operations Manager   **January 2025 – Present**
Faloni Law Office   *Roseland, New Jersey*

- Streamlined file transfers from New Jersey and New York courts by 40% by refactoring Python code.
- Enhanced employee performance by 20% by upgrading and managing technology software and hardware.
- Remediated technology issues by communicating with employees and delivering solutions.
- Automated e-mail scraping with Python and other libraries to streamline payments and settlements by 60%.

DevSecOps Engineer   **July 2024 – January 2025**
MSC Industrial Supply   *Melville, New York*

- Engineered enhancements to existing Virtual Machine hardware, resulting in a significant 20% cost reduction while maintaining optimal performance.
- Enhanced deployment times by 40% by refactoring Jenkinsfiles to establish seamless integration and development
- 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.
- Accelerated Deployments by 30% by containerizing legacy .war files into Dockerfiles
- Configured a Disaster Recovery instance for Product Discovery Elastic Search, tested through the Snapshot and Restore recovery option.
- Pioneered the GitLab on-prem code repository, housing 60% of the e-commerce API and UI applications
- Reduced costs by 10% by refactoring Virtual Machine Terraform files.

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++, MATLAB, Python, Golang, Groovy, Bash, HTML, CSS, JavaScript, PostgreSQL
Developer Tools: VS Code, Google Cloud Platform, Oracle Cloud, AWS, Microsoft Azure, Kubernetes, Terraform
Technologies/Frameworks: Windows, iOS, Linux, Jenkins, Docker, GitHub, Bitbucket, GitLab, Wiz, Jira, TCP/IP, DHCP, Active Directory, Microsoft Office