# Andrew Lee Rosscoe

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## Education

**BACHELOR OF SCIENCE [COMPUTER SCIENCE]** | 2023 | TOWSON UNIVERSITY |

**BACHELOR OF SCIENCE [CELL AND MOLECULAR BIOLOGY / MINOR BIOCHEMISTRY]** | 2018 | TOWSON UNIVERSITY

## Qualifications

- Java, Python, Git, Linux, Kotlin
- Microsoft Dynamics 365 and Azure
- SQL, Spring Frameworks, Docker, Kubernetes, Flask
- Statistical data analysis and interpretation
- Junit, Mockito, Gitlab, SonarQube, Maven, Nexus, IntelliJ, NiFi
- AWS (Lambda, DynamoDB, SQS/SNS)

## Experience

**SOFTWARE ENGINEER | GENERAL DYNAMICS INFORMATION TECHNOLOGY | HANOVER, MD | 2023 – PRESENT**

- Design, develop, integrate, test, and implement scalable microservices on Linux system utilizing Java and Kotlin, for use in Docker/Kubernetes high-volume data-processing applications, while practicing Agile methodologies
- Researched and implemented emerging tools and services to deliver efficient, scalable solutions aligned with business needs
- Develop and deploy serverless applications using AWS lambda to support event-driven scalable architectures
- Refactored SQL-based system into AWS DynamoDB, reducing costs and improving performance and scalability
- Served as a mentor to interns by providing technical guidance, code feedback, and onboarding support
- Produced quality code and enforced coding standard, conventions, and practices

**SOFTWARE ENGINEER INTERN | GENERAL DYNAMICS MISSION SYSTEMS | HANOVER, MD | 2022**

- Researched specific topics in Artificial Intelligence and Machine Learning
- Code construction and development in Python to deploy a statistical analysis application
- Developed a web application for the project using Flask
- Managed files and testing applications using AWS and Linux
- Created and conducted a presentation to summarize findings with the team and company.

**SUPPORT CONSULTANT | PROTECH ASSOCIATES & TOGETHERWORK | COLUMBIA, MD | 2020 - 2022**

- Provide custom AMS Microsoft dynamics 365 support to broad range of professional associations
- Troubleshoot UX business processes, reports, integrations, data integrity, and MX configuration modules
- Query client specific information and develop workflows to enhance existing processes
- Manage client support case queue, documentation of system issues, and escalations to developmental departments
- Educate users on navigation and functionality

**LABORATORY TECHNICIAN I [BIOSURGERY] | SMITH & NEPHEW | ELKRIDGE, MD | 2018 - 2020**

- Manufactured medicinal product utilizing human placental tissue
- Proper execution of aseptic techniques inside and out of cleanrooms
- Excellent knowledge of GTP cGMP practices in the biotechnology field
- Provide quality assurance support for documents and processes
- Participated in corporate quality and process improvement initiatives

## Professional Training & Classroom Experience

**GITHUB | [HTTPS://GITHUB.COM/AROSSCOE](https://github.com/arosscoe)**

- Docker and Kubernetes: The Complete Guide – 2024
- Introduction to Cloud Computing on AWS [2024] - 2024
- Personal website hosted on GitHub pages (https://arosscoe.github.io/)
- Twitter sentiment analysis
- Data clustering and time series analysis, deployed as Flask web application (Twitter / Machine Learning).
- Minimax algorithm and beta pruning AI application based Nine Men's Morris Game, Variant-D
- MERN Stack web application