# Ritik S Ghanshani

### CLOUD COMPUTING AND DEVOPS ENTHUSIAST

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## Education

**Drexel University**                                                                                *Philadelphia, PA*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE                                      *Graduation: September 2022*
CONCENTRATIONS IN AI AND COMPUTER VISION                                          *Cumulative GPA: 3.99*
MINOR IN ENTREPRENEURSHIP AND INNOVATION

## Experience

**Moberg Analytics Inc.**                                                                           *Philadelphia, PA*
DEVOPS LEAD AND CLOUD DEVELOPER                                                  *September 2021 - Present*

- Developed CI/CD pipelines using Docker and IBM Cloud to automate testing and deployment to production environment
- Utilized Docker to interface multiple Flask applications for clinical trials with Celery, PostgreSQL DB, and AWS S3
- Pivoted existing applications to serverless deployments with minikube and knative to reduce costs of deployment
- Maintained a Kubernetes data-management application for 2 clinical trials on Neurocritical care with over 50 sites
- Refactored existing code base to modularize redundant code, improve maintainibility and reduce coupling

**Bristol Myers Squibb Company**                                                                    *Hopewell, NJ*
CLOUD DEVELOPER CO-OP                                                             *September 2020 – March 2021*

- Built a front-end React application to assist 200 projects with generating JSON configurations for AWS deployment
- Refactored codebase for the prototype application to incorporate design patterns and ensure maintainibility
- Created backend functionalities using AWS API Gateway and Lambda to provide context-based suggestions
- Hosted the single page application on AWS S3 using CloudFormation and CloudFront

**Agilent Technologies**                                                                            *Wilmington, DE*
SOFTWARE ENGINEERING CO-OP                                                       *September 2019 – March 2020*

- Devised a dashboard to automate data pipelines and generate reports, saving the Production Manager 10 hours per week
- Managed 6-month dashboard-development process, handling various scope and timeline adjustments
- Incorporated KPI analytics for 10+ GB of logistics data into the dashboard using ASP.NET
- Generated optimal shipment dates by processing raw shipment data and purchase history in a SQL database

## Projects

**Senior Design Project**                                                                          *Philadelphia, PA*
MLOPS LEAD ENGINEER AND PRODUCT OWNER                                           *September 2021 - Present*

- Architected a Deep Learning pipeline using AWS for data collection, preprocessing, training and inference
- Engineered a development environment and various tools to allow for rapid training, testing and deployment
- Developed multiple Deep Learning models using PyTorch to diagnose potential chronic sinusitis in digitized cell slides
- Created and maintained the vision, roadmap, and backlog of work through the project's life cycle

## Skills

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| **Programming Languages** | Python, Javascript, Java, MATLAB, SQL, C# |
| **Frameworks** | React, Flask, NumPy, Pandas, .NET, Node.js, PyTorch, OpenCV |
| **Technologies** | PostgreSQL, Kubernetes, Docker, Git, GitHub Actions, Bitbucket Pipelines |
| **Amazon Web Services** | EC2, IAM, ECR, EFS, RDS, S3 Glacier, Lambda, CloudFormation, SageMaker Studio, API Gateway |
| **Operating Systems** | Linux, Windows, MacOS |

## Activities

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| **Drexel Clubs** | Member, Algorithms & Data Structures Club | *September 2020 - Current* |
| | Member, Artificial Intelligence Club | *September 2020 - Current* |
| | President, Drexel Robotics Club | *September 2019- September 2020* |