

Ritik S Ghanshani

CLOUD COMPUTING AND DEVOPS ENTHUSIAST

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Education

Drexel University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
CONCENTRATIONS IN AI AND COMPUTER VISION
MINOR IN ENTREPRENEURSHIP AND INNOVATION

Philadelphia, PA

Graduation: September 2022

Cumulative GPA: 3.99

Experience

Moberg Analytics Inc.

DEVOPS LEAD AND CLOUD DEVELOPER

Philadelphia, PA

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 maintainability and reduce coupling

Bristol Myers Squibb Company

CLOUD DEVELOPER CO-OP

Hopewell, NJ

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 maintainability
- 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

SOFTWARE ENGINEERING CO-OP

Wilmington, DE

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

MLOPS LEAD ENGINEER AND PRODUCT OWNER

Philadelphia, PA

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

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

Drexel Clubs

Member, Algorithms & Data Structures Club
Member, Artificial Intelligence Club
President, Drexel Robotics Club

September 2020 - Current

September 2020 - Current

September 2019- September 2020