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*
SOFTWARE ENGINEERING CO-OP   *September 2021 - Present*

- Developing CI/CD pipelines using Docker and IBM Cloud to automate testing and deployment to production environment
- Utilizing Docker to interface multiple Flask applications for clinical trials with Celery, PostgreSQL DB, and AWS S3
- Pivoting existing applications to serverless deployments with minikube and knative to reduce costs of deployment
- Maintaining a Kubernetes data-management platform for 2 clinical trials on Neurocritical care with over 50 sites

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*

- Remodeling an old project using digitized slides to improve the classification accuracy of eosinophil cell density to 80%
- Prescribing the appropriate treatment for potential chronic sinusitis given high eosinophil cell desnity using a CNN
- Deploying and managing Deep Learning pipeline using AWS SageMaker, S3 Glacier and ECR
- Creating and maintaining 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, 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	*September 2020 - Current*
	Member, Artificial Intelligence Club	*September 2020 - Current*
	President, Drexel Robotics Club	*September 2019- September 2020*