

Ritik S Ghanshani

CLOUD COMPUTING AND ROBOTICS ENTHUSIAST

✉ ritik.ghanshani@outlook.com | 🌐 ritik-ghanshani.github.io | 🔊 ritik-ghanshani | 🌐 ritik-ghanshani

Education

Drexel University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
CONCENTRATIONS IN AI AND COMPUTER VISION

Philadelphia, PA

Graduation: September 2022

Cumulative GPA: 3.91

Experience

Amazon Robotics

SOFTWARE DEVELOPMENT ENGINEER 1

North Reading, MA

October 2022 - Present

- Enhanced a robotics simulation platform to support performance testing for new components, ensuring high fidelity
- Automated testing of globally deployed robotics solutions, reducing manual testing time by 8 hours per week
- Developed a dashboard to automate report generation, saving 2+ hours per week for multiple teams
- Designed caching service using AWS Lambda, DynamoDB and SQS with AWS CDK to improve dashboard performance

Moberg Analytics Inc.

DEVOPS LEAD AND CLOUD DEVELOPER

Philadelphia, PA

September 2021 - August 2022

- 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
- Reduced costs of deployment by 94% through serverless deployments with minikube and knative software

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
- Published an npm package to support importable plug and play use of the application in multiple projects

Agilent Technologies

SOFTWARE ENGINEERING CO-OP

Wilmington, DE

September 2019 - March 2020

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

Skills

Programming Languages

Python, Kotlin, Typescript, Java, MATLAB, SQL

Frameworks

React, Flask, NumPy, Pandas, Node.js, PyTorch, OpenCV

Technologies

PostgreSQL, Kubernetes, Docker, Git, GitHub Actions, Bitbucket Pipelines

Amazon Web Services

EC2, IAM, ECR, EFS, RDS, S3, Lambda, CloudFormation, SageMaker, API Gateway, CDK