

# Ritik S Ghanshani

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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.

Philadelphia, PA

SOFTWARE ENGINEERING CO-OP

September 2021 - Present

- Maintaining a Kubernetes data-management platform for 2 clinical trials on Neurocritical care with over 50 sites
- Utilizing Docker to interface multiple Flask data upload portals for clinical trials with Celery task queue, PostgreSQL DB, and AWS S3
- Reducing costs of deployment by 94% through serverless deployments with minikube and knative software

### Bristol Myers Squibb Company

Hopewell, NJ

CLOUD DEVELOPER CO-OP

September 2020 – March 2021

- Developed an automated tool to increase the speed and efficiency of the AWS resource deployment process by **X%**
- Built a front-end form using React to assist **#X** users with generating JSON configurations for AWS deployment
- Created backend functionalities using AWS API Gateway and Lambda to provide context based suggestions for JSON fields
- Hosted the application on AWS S3 using CloudFormation and CloudFront as a tool utilized by **#X** dashboards

### Agilent Technologies

Wilmington, DE

SOFTWARE ENGINEERING CO-OP

September 2019 – March 2020

- Devised a dashboard to automate routine tasks, reducing the time taken to generate Production reports by 10 hours per week
- Pioneered the development process of the dashboard for 6 months including project timeline and scope management
- Incorporated KPI analytics for 10+ GB of logistics data into the dashboard using ASP.NET as the frontend
- Processed optimal shipment dates by combining raw shipment data and purchase history in a SQL database

### Culture CoLab, Ltd.

Ranchi, India

DIGITAL INNOVATION INTERN

February 2018 – April 2018

- Launched a Google Play Store App to connect thousands of rural students to companies that offer Learn and Earn opportunities
- Implemented Authentication and Database for storing 5+ GB user data using Firebase
- Utilized Microsoft Azure and Tableau to determine high potential customers from the userbase
- Constructed an information portal using Raspberry Pi and Alexa to use voice recognition to welcome 300+ visitors a month

## 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 density 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** Python, Java, Javascript, MATLAB, SQL, C#, HTML, CSS

**Technologies** React, .NET, Flutter, Postgres, Kubernetes, Docker, Git, GitHub Actions

**Libraries** Flask, OpenCV, NumPy, Pandas, PyTorch, Tensorflow

**Amazon Web Services** EC2, IAM, ECR, EFS, RDS, S3 Glacier, Lambda, CloudFormation, SageMaker Studio, API Gateway, CloudFront

## Activities

**Facebook** Member, Above and Beyond Computer Science Program

August 2021 - Current

**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