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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 dev environments and CI/CD pipelines for multiple projects using VS Code, Docker, Bitbucket pipelines, and IBM Cloud
- 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 20%
- Built a front-end form using React to assist 200 projects 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 20 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
- 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 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	Python, Java, Javascript, MATLAB, SQL, C#, HTML, CSS
Technologies	React, .NET, Postgres, Kubernetes, Docker, Git, GitHub Actions, Bitbucket Pipelines
Libraries	Flask, OpenCV, NumPy, Pandas, PyTorch
Amazon Web Services	EC2, IAM, ECR, EFS, RDS, S3 Glacier, Lambda, CloudFormation, SageMaker Studio, API Gateway, CloudFront
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*