Sohum **Dalal**

SOFTWARE ENGINEER

□ 301-219-3878 | ✉ sohumd96@gmail.com | in sohum-dalal

Edu**cation**

Georgia Institute of Technology   *Atlanta, Georgia*

M.S IN COMPUTER SCIENCE   *Jan. 2022. - Dec. 2024*

- Specialization in Computing Systems

University of Maryland College Park   *College Park, Maryland*

B.S IN COMPUTER SCIENCE   *Aug. 2014 - May. 2018*

- Presidential Scholarship Recipient from 2014-2018

Exp**erience**

MicroStrategy   *Tysons Corner, Virginia*

SENIOR SOFTWARE ENGINEER - PLATFORMS ON CLOUD   *Jan. 2019 - Present*

- Worked on the Cloud Platform team engineering REST APIs for MicroStrategy Cloud Platform using Spring MVC to provision AWS EC2 instances hosting core MicroStrategy products and services
- Managed orchestrations and automated code deployments using AWS services including Kubernetes, Lambda, Step Functions, and SQS message services to perform operational tasks
- Involved in architectural design for new features, often researching new technologies and prototyping solutions to enhance the MicroStrategy cloud product

United States Department of Agriculture   *Beltsville, Maryland*

COMPUTATIONAL BIOLOGIST INTERN   *Sep. 2017 - Aug. 2018*

- Wrote Bash scripts annotating and clustering genomes on large files of sequenced data
- Performed analyses on annotated sequence data to identify genes of interest that were susceptible to gene knock-off
- Built additional pipeline scripts using Bash to find similarities in sequence data using BLAST (Basic Local Alignment Search Tool)

Amazon Web Services   *Seattle, Washington*

SOFTWARE DEVELOPMENT ENGINEER INTERN   *Jun. 2017 - Aug. 2017*

- Conducted an independent software project to develop an internal tool for business developers
- Built full stack software with end to end functionality that allowed users to interact with a working UX and manipulate and create changes on the site with implemented back-end logic
- Worked alongside a team of seasoned engineers and interacted with Amazon's internal code base and services during development

Pro**jects**

Cover Crop Selector Tool   *Beltsville, Maryland*

UI/UX DESIGNER AND DJANGO DEVELOPER   *Jan. 2018 - May. 2018*

- Worked in a team of seven other engineers to build a tool for the USDA. The tool generated recommended cover crops to farmers based on certain input parameters (such as weather, soil conditions, drainage systems) along with desired cash crops
- Used Django and PostgreSQL as primary technologies framework to create the web tool. Back end implementation was written in Python using existing logic and formulas from the USDA that could recommend cover crops based on farming conditions
- Personally designed UX catered towards farmers using JavaScript and HTML/CSS, and was integrated into the main Django framework

Internal SAAS Marketing Tool   *Seattle, Washington*

SOFTWARE DEVELOPMENT ENGINEER INTERN   *Jun. 2017 - Aug. 2017*

- Created an internal tool for business analysts at Amazon Web Services Marketplace to automate marketing Software as a Service (SAAS) products directly to the AWS Marketplace website
- Tool allowed Amazon's marketing division to manipulate elements on the AWS Marketplace website, and push new images and descriptions of new SAAS products
- Used HTML5, CSS, JavaScript/jQuery for front-end UI, and used Java with Spring MVC for the back-end logic

Ski**lls**

Proficient In: Java, Python, AWS, Git
Experience With: Linux, SQL, Kubernetes, Software Design, Code Review, Logging/Debugging
Certifications: AWS Solutions Architect Associate, AZ-900 Azure Fundamentals