Dhanvee Ivaturi

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EDUCATION

University of Maryland, College Park **August 2018 - December 2021**
Bachelor of Science, Computer Science and Mathematics Overall GPA: 3.67

TECHNICAL SKILLS

Languages Python, Java, Golang, SQL, Matlab, Linux Bash, LaTeX, JavaScript, Git
Frameworks Docker, Kubernetes, Jenkins, Scikit-Learn, TensorFlow, Jupyter notebooks, Pandas, Selenium
Technologies Deep Learning, Data mining, Build automation, Containers, Microservices/Service Mesh

WORK EXPERIENCE

Symantec Corporation **May - August 2019**
`Software Engineering Intern - Cloud Platform Engineering` Mountain View, CA

- Developed a lightweight, configurable, and containerized application in *Golang* to report metrics for any given microservice, with minimal developer effort. Currently used in production environments.
- Added features to a *Python* deployment tool to support new security features for the cloud platform
- Implemented *Jenkins* integration tests for a cloud service by adding thorough test cases for 10+ REST endpoints
- Designed *Grafana* dashboards to visualize metrics from any service, improving understanding of platform health

HuEx Inc **June - November 2018**
`Data Analysis Intern` Palo Alto, CA

- Analyzed 10 GB of raw CSV travel data to identify product-market fit and target markets with *Pandas*
- Scraped various websites with *Python*, *Selenium*, and *BeautifulSoup* for data that helped decide target market

PERSONAL PROJECTS

Moody **HackRU — March 2019**

- Trained a custom deep CNN to predict a user's emotion with a picture of their face using GCP and TPUs
- Designed and implemented a novel data pipeline to minimize response times and improve accuracy, using *Flask*
- 1st place winner and best AI hack @ HackRU

Improving Breast Cancer Diagnosis through Machine Learning **September 2017 - May 2018**

- Compared various ML algorithms (*KNN*, *SVM*, *Logistic Regression*, *Neural Nets*) on a 30 feature, 500+ record dataset describing the cells from a tumor biopsy (numerical values regarding size, texture, etc.)
- Tested *principle component analysis* to evaluate accuracy loss and improvement in training time
- Won Synopsys Silicon Valley science fair, competed in the Intel International Science Fair 2018 as a finalist

Open Sesame – Wi-Fi Garage Door Opener **June 2018**

- Designed and assembled a system with a *Raspberry Pi* that would provide an online interface to the garage door
- Created an intuitive and clean interface for family members to open and close the garage door
- Implemented a logging system for both Wi-Fi and local opens and closes of the garage door

A Deep Learning Approach to Lossy Image Compression **January 2019 - Present**

- Working in a team of 3 under the guidance of Dr. Raymond Tu @ the FIRE COML lab
- Exploring the use of image segmentation and autoencoders for superior image compression

EXTRACURRICULARS

Logistics Director @ Bitcamp **November 2018 - Present**

- Leading a team of 22 to provide networking, A/V, workshops, and scheduling for the largest collegiate hackathon
- Determined travel reimbursement rules and implemented automation scripts for their assignment