
WORK EXPERIENCE

Amazon

Sep 2020 to present

Software Development Engineer (Amazon Fulfillment Technologies).

- Worked with AWS cloud technologies like AWS EC2, AWS Fargate, AWS S3, AWS DynamoDB, AWS CloudFormation, AWS Simple Queue Service, AWS Simple Notification Service, CDK, etc.
- Used AWS technologies to build scalable handscanner-based software tools for receiving incoming cartons in Amazon's warehouses and subsequently update the inventory.
- Developed a solution for detecting repeating carton labels to prevent erroneous receive of inventory.
- Helped develop robotic systems for automated receive of cartons unloaded from trucks inbound to Amazon's warehouses.

Walmart Labs

June 2019 to Aug 2019

Summer Associate (Global Data Analytics Platform):

- Built a tool to move Big Data from on-premise Hadoop cluster to Google Cloud Storage using Apache Spark.

Flipkart

May 2015 to June 2018

Software Development Engineer

- Built a web-scale service for e-commerce review images. (*Spring, Jetty, Couchbase, MySQL*)
- Single-handedly built the feature of storing, moderating and serving product review images at web-scale. (*Spring, Jetty, Couchbase, CDN*)
- Developed a centralized moderation service to interface between Flipkart's systems and the moderation company's systems. (*Dropwizard, MySQL*)

EDUCATION

Virginia Tech

Aug 2018 to Aug 2020

Degree: M.S. in Computer Engineering. GPA = 4.0/4.0 (Plan of Study)

Courses: Deep Learning, Advanced Machine Learning, Computer Vision, Big Data Text Summarization, Digital Libraries, Linux Kernel Programming.

Thesis topic: Extracting figures and tables from scanned Electronics Thesis and Dissertations (ETD).

About thesis: Using object detection to extract figures and tables from the PDF files of scanned ETDs to aid in downstream information retrieval tasks. Based on [deepfigures-open](#).

BITS Pilani

2011 to 2015

Degree: B.E Honours in Electrical and Electronics Engineering. Overall GPA = 7.97/10.0

Courses: Digital Image Processing, Data Structures and Algorithms (unofficial audit), Data Mining.

SKILLS

- **Experienced in** developing deep learning models and web-scale software.
- **Experienced in** Pytorch, Tensorflow, Scikit-Learn, Pandas, Numpy, Anaconda and Docker.
- **Fluent with**: Python, Java, C/C++, Linux/Bash, Git/Github, C#, and ReactJS.

PUBLICATIONS

ScanBank: A Benchmark Dataset for Figure Extraction from Scanned Electronic Theses and Dissertations (JCDL'21)

URL: <https://arxiv.org/abs/2106.15320>

Multi-modal Data Exploration in a Mixed Reality Environment Using Coordinated Multiple Views (HCII'21)

URL: https://link.springer.com/chapter/10.1007%2F978-3-030-78321-1_26
