

MANU HEDGE

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OBJECTIVE: To intern as a Software Engineer starting Summer 2024.

SUMMARY: CS Graduate student and former L3 Software Engineer with experience in leading teams and building software products in Big Data, MLOps and e-signing.

EDUCATION

Master of Science (MS) in Computer Science & Software Engineering
University of Washington | Bothell, WA

June 2025

Bachelor of Engineering (BE) in Computer Science & Engineering
Dr Ambedkar Institute of Technology, Visvesvaraya Technological University
Bengaluru, KA, India

June 2019
GPA 3.5

WORK EXPERIENCE

Tekion Corporation

Bengaluru, India

Senior Software Engineer (L3)

Jan 2023 – Jul 2023

- Developed & launched pilot of Phase-I backend of an **e-signing platform** (web application) for **4 major car-dealership companies in the US**, which enables car owners to sign contracts online with the car dealerships that use Tekion's products.
- Got appreciated for fast self-onboarding and execution.

Udaan (Hiveloop Technology Pvt. Ltd)

Bengaluru, India

Data Scientist

Jan 2022 – Dec 2022

- Developed & launched a pilot model for forecasting the demand for selected items in 1 warehouse.
- Developed & deployed a pilot model for 8 cities across India for 2 FMCG brands to target ads for buyer groups.
- Developed a model for understanding the impact of different in-app ad widgets.

Product Engineer - Data Platform

Jul 2019 – Dec 2021

- Created a unified near real-time self-serve data platform, based on Databricks **Delta Lake** technology, that handles petabyte-scale data regularly.
- Worked across the software stack, in setting up & managing infrastructure, building microservices for front-end web UI and backend modules.
- Iterated on product & features to achieve 100% companywide adoption **within 4 months** of launch.
- Focused on scalability, stability resulting in an 83% reduction in outages and a cost reduction of 54%
- Hiring & Leadership:** Part of the hiring panel for product & software engineer roles, mentored new college graduates and expanded the data platform team to **6 engineers**.
- Overall Impact:** improved execution efficiency for existing use cases by **2-22x** and enabled hundreds of new use cases.
- Recognitions:** Received a **#crushing_it award** for developing the data platform, which also received an NPS score of 8.1 from 2400+ users

Tika Data

Bengaluru, India

Deep Learning Intern

Jan 2019 – Jun 2019

- Developed a tool to extract frames of a specified set of real-world objects present in videos by applying a pre-trained image detection model using **YOLO V2 & Detectron**
- Implemented a research paper to develop a tool that generates new faces based on a set of input faces using a pre-trained GAN(**StyleGAN**) model.

TECHNICAL SKILLS

Languages: C, C++, Python, Typescript, Kotlin, Java, Clojure; **Frameworks:** PyTorch, Tensorflow, React, React Native, Pyspark; **Technologies:** Kubernetes, Databricks Delta, Spark, Bash, Linux, Git, Docker, AWS Lambda, Google cloud Firebase & App Engine, Azure EventHub, Azure SQL server, Redis.

PROJECTS

- FarmTV** - Developed a **mobile application** in **react native** for farmers of KA, India, where scientific agriculture documentaries are streamed on a regular basis, with more than **50,000+ downloads and 1000 DAU** (Daily Active Users)
- Radiant Board** - Developed **firmware** (embedded C) and **desktop application** (C++.Net) for a Information Display Board powered by ATmega1280 controller, used by **2000+ stores** of BPCL.
- File sorting using deep learning & clustering** - Designed a desktop application to segregate image files based on their content and color distribution using **Inception V3 & T-SNE**.
- X86 Kernel Development** - manuOS - Created a basic 32-bit Kernel written in C and x86 assembly.

RESEARCH

- Document Summarizer using Skip-Thought and Content-Based Clustering**, May 2019
www.researchgate.net/publication/366135922_Document_Summarizer_using_Skip-Thought_and_Content-Based_Clustering