

MANU HEDGE

Bothell, WA 98011 +1 (425) 215-6366 manuhg@uw.edu github.com/manuhg linkedin.com/in/manu-hedge

SUMMARY

Computer Science Graduate Student and former L3 Software Engineer with experience in leading teams and building software products in Big Data, MLOps and e-signing, looking for *software engineer internship during Summer 2024*.

EDUCATION

University of Washington | Bothell, WA, USA 06/2025

Master of Science (MS) in Computer Science & Software Engineering

Dr. Ambedkar Institute of Technology, Visvesvaraya Technological University | Bengaluru, India 06/2019

Bachelor of Engineering (BE) in Computer Science & Engineering

WORK EXPERIENCE

Tekion Corporation Bengaluru, India

Senior Software Engineer (L3) for 7 months: 01/2023 - 07/2023

- Co-led the development & launch of Phase-I pilot backend for an e-signing platform (web application) targeting 4 major car-dealership groups in the US, resulting in a standardized e-signing experience across Tekion's software products.
- Improved team culture by increasing time-discipline, documentation, and document-driven discussions.
- Individual contribution in designing & building Java micro-services for real-time screen-sharing & collaboration facility and a signing rules enforcement module that regulates the signing process
- Recognitions:** Received appreciation for swift onboarding, execution, and guiding the team

Udaan (Hiveloop Technology Pvt. Ltd.) Bengaluru, India

Data Scientist for 1 of 3.5 years: 01/2022 - 12/2022

- Developed & launched a pilot model (**gradient boosted tree**) for demand forecasting of selected items in one Tier-I warehouse, *resulting in* valuable insights into SKU aggregation and substitution strategies
- Built & launched a pilot model (**ensemble**) to target FMCG brand ads for buyer cohorts across multiple cities in India, *yielding* insights into ads-budgeting strategies
- Created models (**probabilistic, non-linear**) for understanding the impact of different in-app ad widgets, *helping* stack-rank in-app ad-placement locations

Product Engineer - Data Platform for 2.5 of 3.5 years: 07/2019 - 12/2021

- Started & led the project to create 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, setting up & scaling infrastructure and micro-services for front-end, middle-ware & back-end modules; from code base to data lake to network configurations and everything in between
- Iterated on product & features to achieve **100%** company-wide **adoption within 4 months** of launch
- Focused on scalability & stability, reducing outages by **63%** and total cost by **54% over 3 quarters**
- Contributed to architecting **MLOps Platform** (Feature Store, Versioned Model Pipeline, Deployment Infrastructure, Versioned Data catalog and Notebooks Integration)
- Hiring & Leadership:** On the hiring panel for product & software engineers (interviewed 100+ candidates), mentored 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 (compared to an existing, third-party solution that was in use)
- Recognitions:** Received a **#crushing_it** award for leading and developing the data platform, which also received an NPS score of **8.1 from 2400+ users**

Tika Data Bengaluru, India

Deep Learning Intern for 6 months: 01/2019 - 06/2019

- Built tool to extract video frames containing specific objects using image detection models (**YOLO V2 & Detectron**)
- Implemented a research paper to develop a face image generator based on a set of input faces using GAN (**StyleGAN**)

TECHNICAL SKILLS

Languages: C, C++, Python, Typescript, Kotlin, Java, Clojure; HTML, CSS, Bash, Zsh, SQL

Frameworks & Libraries: ReactJS, React Native, Dropwizard, Springboot, JUnit5, Locust, PyTorch, PySpark;

Technologies: EventHub, Kubernetes, Microservices, Linux, Git, Docker, Databricks Delta, Spark, Redis, Aerospike;

Databases: PostgreSQL, Azure SQL, CosmosDB, MongoDB;

PROJECTS

- osh** - command line application for debugging and fixing errors, **winner of Hasgeek Deephack 2023**; *getosh.com*
- FarmTV** - Created a **react native app** for farmers of KA, India, to watch scientific agricultural videos. Has **50,000+ downloads and 1000+** daily active users; *play.google.com/store/apps/details?id=com.shramajeevi.farmtv*
- Radiant Board** - Designed and implemented **firmware** (embedded C) and desktop application (C++ .Net) for an Information Display Board powered by ATmega1280 controller, used by **2000+ stores** of BPCL
- fsort** - Built desktop application for content-based image segregation using **Inception V3 CNN & T-SNE** clustering; *github.com/manuhg/libfsort*
- manuOS** - Developed a basic X86 Kernel written in C and x86 assembly for hobby; *github.com/manuhg/manuOS*