

## EDUCATION

### University of Pittsburgh

MS in Computer and Information Sciences (Start Fall: 2019) GPA: 3.8/4.0

Graduate Student Research Assistant under Prof. Heidi Donovan & Dr. Nicolas Farnan

Courses: Algorithms Design, Data Mining & Visualization, Advanced Databases, Adaptive Informative Systems, Interactive System design, HCI.

Pittsburgh, PA

April 2021

### Mahindra Ecole Centrale (MEC)

BTech in Computer Sciences and Engineering

Graduated in First class. Dean's List for academic excellence in 2 semesters.

Hyderabad

May 2018

Awards: Received Dean's Students' Scholarship for 2 years. Activities: **Founded Robotics club 'Innovative Androids', 'Crypto Club'.**

Courses: Theory of computation, Cloud, Computer Architecture, Computer Networks, Operating Systems, Economics, Finance, Design Thinking

## TECHNICAL SKILLS

- Programming Languages – C, C++, C#, Python, Java, JavaScript (node.js, Angular and React), MATLAB, Swift, Go, Scala, Spark, Rust.
- Frameworks & Tools – R, Tableau, TensorFlow, Pandas, Pytorch, Redis, Cassandra, Neo4j, **Solidity, Vyper, Web3, Ethereum.**
- Others – SQL, Hadoop – MapReduce, Linux/Unix, GIT, Docker, Jenkins, Kubernetes, Springboot, AWS, RabbitMQ, Kafka, Android.

## PROFESSIONAL EXPERIENCE

### Philips USA – Advanced Innovations Team

Pittsburgh, PA

#### Software Development Intern

May 2020 – Dec 2020

- Worked on multiple **distributed, multi-tiered systems** projects: building android apps & compatible WearOS watch apps using Kotlin, Java & Spring with direct application to data science, analysis of patients to address challenges on Health care industry.
- Involved extensively, worked closely with architects, senior engineers in network design & developed a group of well-connected micro services connecting backend, machine learning pipelines to stream tranches of data from user's end and other end points.
- Independently wrote API functions in node.js, python which routes data from wearable devices to cloud based backend GCP & AWS. Involved in brain storming sessions with UX team to learn **design philosophies & implementation experience.**
- Developed patient-physician payment gateway for a portal used by many Philips client-based hospitals across USA.
- Worked with R&D team on multiple patentable devices to improve millions of people lives by solving sleep issues using sensor technology, AI/ML (CNN & DNN) where I was co-author of a filed invention disclosure (ID-2020ID01002, **Patent Pending**).

### Tech Mahindra

Bangalore

#### Jr Data Scientist & Developer

Jul 2018 – Jul 2019

- Worked on projects applying Data science and Machine learning techniques to address challenges on client side (Verizon, Logitech, Oracle) and across other internal teams within the company by regularly gathering requirements from stakeholders.
- Pioneered exploratory data analysis using SQL and Python and created visuals that revealed 3-4 years of empirical outcomes towards implemented policies. Built end to end machine learning pipelines using Python, Scala, and Kafka. Optimized models by adding additional features, utilizing advanced models such as feed forward neural nets, xgboost, lightgbm to achieve 85% accuracy. Implemented & deployed Nginx – HTTP load balancer with AWS. Used LSTM RNN to improve demand forecasting over existing time series techniques. Took responsibility, led project meetings with clients, leadership team & partners within the organization to define scope, ensure project's checkpoint resulting in on-time deliverables while balancing **budget, client needs and customer satisfaction.**

### Tata Consultancy Services

Hyderabad

#### Software Development Intern (Emerging talent programme)

May 2017 – Jul 2017

- Developed rich and interactive web platforms using MEAN stack for internal applications. Developed, deployed a chatbot for the client (KPMG) using Docker, minikube gives live data from the stock markets used by stockbrokers for efficient trading.

## SELECTED ACADEMIC PROJECTS

### INDOOR POSITONING SYSTEM

Aug 2019 – May 2020

#### Research Project, UPitt (Advisor: Prof. Jacob Biehl)

- Developed an application relying on a novel algorithm to locate a network of wide variety devices (phones, tags, sensors, VR) used to wirelessly locate objects or people inside a building. Used numerous computational methods using different Deep Neural Networks, using linear programming optimization techniques reduced error i.e., in distance measurement from mt's to few cm's.

### GRAMMAR BASED COMPRESSION

Jan 2017 – May 2018

#### Semester Research Project, MEC (Advisor: Prof. Bruhadeshwar Bezawada)

- Developed an algorithm to search subsequence string in each complex sequence of data. Used various computation methods with Context Free Grammars (CFG) for pattern matching and we were able to compress the string simultaneously while searching. Algorithm is a C++ implementation of LCA, our implementation uses a variable-length dictionary for memory-efficiency.

### [Vallahacoin - Token](#)

Pittsburgh

#### Blockchain Developer

Apr 2021 – May 2021

- Developed a token – vallahacoin which can handle contracts on Ethereum network, allowing transactions using solidity and launched it on Binance for fun. Locked the liquidity pool at 95% to gain the trust of people. It Reached to a peak value of 250,000\$ market cap during crypto bull run.