

INAN BATRA

inanbatra@gatech.edu | linkedin.com/in/inanbatra/ | (415)-283-6452 | github.com/inanbatra

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

BS Computer Science: *Artificial Intelligence & Networks*, Minor in Finance & Investments

May 2021

GPA 3.79

EXPERIENCE

AGILE COMMUNICATION ARCHITECTURES - *Undergraduate Research Assistant*

August 2018 – present

- Remodeling Machine Learning algorithms into communication architectures to achieve the agility required for wireless communication tasks using Python
- Working on GNU radio systems that dynamically learn the device environments to avoid interference
- Designing wireless communication devices that opportunistically exploit the frequency band
- Collaborating with Computer and Electrical Engineering teams to create a comprehensive solution for device efficiency from 50% to 70% by detecting transmission gaps

ROYAL DUTCH SHELL - *Data Analytics Intern*

June 2018 – August 2018

- Developed Machine Learning models to predict oil prices and analyze market patterns to increase sales by 10%
- Designed a process modelling system in python for hydrocarbon processes to reduce consumption of gases by 30% and save costs by \$30000
- Integrated the predictive maintenance and geological-fault detection system to craft interoperable solutions

INFROVATE CONSULTING PVT. LTD - *Technology & Infrastructure Intern*

June 2016 – July 2016

- Provided technology solutions within the infrastructure sector to optimize toll management systems
- Created a web-based platform to report the progress made by 6 monitoring agencies to improve response time
- Studied RFID chips and tested their durability using variable metal surfaces and weather conditions.
- Conducted a project to analyze ATCC (Automatic Traffic Counter/Classifier) surveys to increase productivity by 6%

PROJECTS

SwampDrums – Android and Web Application to simulate virtual drums

January 2019

- Employed accelerometer sensors to detect rotation angles to correspond to different drum parts
- Used Postman and Node.js to relay information in real-time to the web application, built using React

RPA Process – Robotic Process Automation for SpiceJet Airline Company

December 2018

- Developed Process Automation Workflows in UI Path from technical design documents to meet user requirements
- Integrated RESTful APIs and automated data extraction using web scraping into the workflows

iCivic – Android Application to automatically generate civic maintenance requests

September 2018

- Responsible for the complete front-end development of the app using Java, XML
- Used a firebase backend for authorization and request storage, implementing location services to get user location

LEADERSHIP

VICE PRESIDENT - *Sports - India Club at Georgia Tech*

May 2018 – present

- Oversaw events catered to 800 people, from strategic planning to vendor negotiations
- Maintained sports inventory resource system to streamline procurement requests for more than 20 items and reduce event expenditures by \$500.
- Facilitated the improvement of member relations and services through the membership committee

FOUNDER - *The Bloom Project – Non Profit*

December 2016 - present

- Campaigned and collaborated with corporates to raise funds amounting to \$2500 through the CSR initiative
- Sponsored the education of 35 economically disadvantaged children and spread awareness on the importance of education

SKILLS

Technical: Java, Python, HTML, JavaScript, React, Node.js, CSS, R, MATLAB, Android, UI Path, PhoneGap

Coursework: Data Structures & Algorithms, Discrete Math, Probability & Statistical Inference, Database Systems

Languages: English(Native), Hindi (Native), Bengali (Native), Spanish (Intermediate)

Organizations: Investments Committee, GT Web Development, A.I Club, GT Student Alumni Association