

RAGHAV PURI

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Objective

To obtain a Software Engineering position applying technology, programming, and creative problem-solving skills to achieve customer utilization and profitability.

Education

Master of Science in Computer Science **May 2021**

The University of Texas at Dallas, Richardson, USA

Bachelor of Technology in Electronics & Communication Engineering **May 2019**

Guru Gobind Singh Indraprastha University (GGSIPU), Delhi, INDIA

GPA: 3.8/4.0

Technical Skills

C++, Java, Python, Android Studio, Computer Vision, SQL, HTML, CSS

Work Experience

Algorithms Research Intern | Massachusetts Institute of Technology (MIT) **Jun 2020 – Present**

- Responsible for Mapping 128 Algorithmic Groups to their corresponding industrial applications to analyze which algorithmic advances are in use
- Examining which algorithms are built into top 10 programming languages and their most used libraries
- Conducting an in-depth analysis to draw a comparison between theoretical and practical usage of algorithms over the years using **Python**
- Determining how important are algorithmic groups per their usage on opensource Projects and Research Papers

Research Assistant | University of Texas at Dallas **Nov 2019 – Jun 2020**

- Responsible for Developing & Testing an Android App that draws bounding box and detects 4 ML Parameters via Face Detection using **Java, TensorFlow, XML**
- Integrated **Firebase** with app to upload 6 different photos of different views of human head on the Server for further ML Classification & Processing
- The app is internally used by doctors for diagnosis of a disease called Craniosynostosis

Google Summer of Code Intern | AOSSIE, Delhi, India **Apr 2018- Aug 2018**

- Developed Starcross iOS app that identifies Live locations of approx. 250 Stars, Planets & Constellations using **Objective-C, C++, and GL**
- The app uses the database of coordinates provided by NASA to determine their exact locations, collaborated with device's GPS
- Created 7 separate UI/UX compatible with various iPhone versions (iPhone 6S to iPhone X)

Relevant Leadership Experience

Mentor | Google Summer of Code | AOSSIE, Delhi, India **Apr 2019- Aug 2019**

- Mentored a student involved in the Android Project that identifies live locations of Heavenly bodies
- Assisted and Guided towards the completion of the project by suggesting changes in code & development cycle and merging it in the main repository

Organization Administrator (Highest Rank) | Google Code-In | AOSSIE **Sep 2018- Feb 2019**

- Successfully led the organization during the execution of the Program
- Mentored 41 students and created 8 tasks for the participants

Co-Founder of a Startup “KhareedTo” | Delhi, India

Jan 2016- Aug 2017

- Co-Founded a startup that provided Engineering Refurbished Products like Drafters, Calculators and Lab Coats at a substantial price to the students
- Responsible for Developing a website for students to order the products and delivering those items within 1 business day

Selected Projects

- Color & Object Detection Android App for visually impaired people (**Java, XML, Android, TensorFlow**)
- Handwritten Digit Classification (**Python, OpenCV, Jupyter Notebook**)
- Car and Pedestrian Detection in Videos (**Python, OpenCV, Jupyter Notebook**)
- Ball Tracking (**Python, Computer Vision, Jupyter Notebook, Machine Learning**)

Publications and Hackathons

- Selected for **HackMIT-18** at **Massachusetts Institute of Technology** as one of approx. 10 students in India. Developed a Chat Bot in Messenger that could be used in Disaster situations like Flood/Earthquake with feature of One-Tap Calling to emergency services like Ambulance, Police
- [Performance Comparison of Object Detection algorithms with different Feature Extractors published at IEEE Xplore](#)
- [Emotion Detection using Python presented for IEEE Xplore](#)
- Secured **7th Position** among **1600+ teams** at Rajasthan Hackathon 4.0, 2018

Honors, Activities & Clubs

- **First Electronics Major Student to crack Google Summer of Code** at college
- **One of approx. 10 students in India** to get selected for Hackathon at **Massachusetts Institute of Technology**
- **Bass-I (Vocal)** at UT Dallas Choir Group
- Technical & Publicity Executive at **Association for Computing Machinery (ACM)** at GGSIPU
- Core Team Member, **Entrepreneurship & Development Cell (EDC)** at GGSIPU