Name: Applied Major: Computer Science Email ID: <a href="mailto:sreehar">sreehar</a>i98@gmail.com

Country:

Academic Records:

Colleges Attended:

Start Date: 08-2016 End Date: 07-2020

Major: Computer Science and Engineering

#### SUPPORTING INFORMATION

### **EXPERIENCE**

1. Experience1:

• Experience Type: Full-Time

o the Month

• **Title:** Senior Software Engineer

o **Employer:** Epsilon

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**Dates:** 09-07-2019/ 06-10-2022

2. **Experience Type:** Internship

the Year

• **Title:** Software Engineer intern

o **Employer:** Epsilon

o Dates: 01-22-2020/05-22-2020

#### SUPPORTING INFORMATION

#### **ACHIEVEMENTS**

1. AWARDS

Name: Best Innovator Award

Date: January 2023

2. AWARDS

Name: Marketing Excellence AwardOrganization: Global Marketing Forum

o **Date:** June 2022

3. AWARDS

o Name: Sales Achiever of the Year

Detai Contomb

Date: September 2021

4. **PUBLICATIONS** 

Driven Approach

o Organization: IEMIS 2020

Date: May 2021

5. **HONORS** 

• Name: Distinguished Tech Contributor

Date: February 2023

## STATEMENT OF PURPOSE

# STATEMENT OF PURPOSE OF

"Speed. Faster than fast, quicker than quick. I am Lightning." - Lightning McQueen. The ingenuous 8 year old me, inspired by anthropomorphic cars, was eager to be the fastest at everything. With this newfound zeal, I ensured that I fulfilled my desires, whether it was to achieve the highest grade in class to win a quiz, or to outperform others in abacus competitions. Being an avid fan of Formula 1, I acknowledge the impact of a fraction of a second in information flow and the ramifications it may have on encresults. My experience in designing algorithms and conceptual understanding of networks deepened my realization of how existing designs can be transformed into vastly superior models by optimization. I am keen on improving the efficiency of algorithms and networks, by fortifying my skills at the University (SJSU).
In my first semester of college, I witnessed real-world applications of algorithmic solutions, when attended a roadshow presented by that funds internships and events for selected students in college. Determined to bolster my experience in interdomain projects, I was among the top 4% of freshmen who secured an internship at the lab for the summer. I worked on a project that detects user sentiments in a Twitter account over a period of time and provides suggestions to lift the mood of the user, by using events detected in their positively categorized tweets. This project was awarded 4th place amidst 25 teams in seven of Connected Hackathon. My knack for public speaking, people management, logistical skills, and contributions to the projects, earned me the prestigious role as the student head for the lab, where I co-led the internship program for 40 students, the following year. Constant involvement in the student community, shouldering responsibilities for events, winning beatbox competitions, partaking in team sports, and regularly contributing to which aims to counter classroom hunger and aid education of underprivileged kids have broadly developed my personality.
The level of efficiency with which Peer-to-Peer (P2P) networks share large files at blazing speeds excites me. Intrigued by the piece selection algorithm, I implemented a pure P2P chat and file sharing client that was tested on multiple users and successfully transferred large files through the campus network. My professor's valuable insights on data-stealing vulnerabilities that my implementation was susceptible to taught me about how it can be optimized into a hybrid P2P network. The depth of complexity in Networking inspired me to choose electives for my 6th semester.
I studied the use of devices infected with the virus to launch a attack during the course and it compelled me to find a solution to BotNet attacks using devices. I collaborated with my teammates to explore how using data packets from external networks. I was exposed to various technologies in the field, such as and to Tunneling Protocols that were used for testing this theory. We were successful in preventing packet sniffing and man in the middle attacks through this research endeavor. This work was presented at the ICCCES 2019 conference and subsequently published in a reputed Springer journal.
Wanting to extend my boundaries in conducting research, my hard work and perseverance earned me an internship at (ISRO). During my internship, I worked on a project that aimed to find the polynomial that represented the most influential features for any given data-set, as a combination of polynomials. I optimized the evaluation of the best fitting polynomial by using greedy methods gleaned from the elective. This work was extremely enriching as it allowed me to collaborate with brilliant scientists in orbital control of satellites.

The documentary "The So al Dilemma" displayed how so al media can be leveraged as a tool to sway the opinions of the masses. Witnessing the negative effects of misinformation spread and biased opinions on the CAA-NRC legislation that was shared on inspired me to work on the problem, as a part of my capstone project in my final semester. Our team analyzed users who had any activity regarding the topic and classified their tweets as positive, negative, or neutral using stance detection. Working on Long Short Term Memory (LSTM) networks as part of elective enabled me to duly apply my knowledge and implement a multiclass classifier using bi-directional LSTMs and a much larger data set from Dr. In that helped our model achieve a 93% accuracy in classifying tweets. The established metrics resulted in successfully detecting bots and identifying accounts that were spreading propaganda. This echoed the observation from "The So al Dilemma" where a user was influenced by an online profile that led to his arrest. With invaluable mentorship from Prof. The study was published in Mining and Information Security book as part of the proceedings in the IEMIS 2020 conference.
Alongside the capstone project, I opted to pursue an internship at galuru as a Software Developer for five months, where my technical competence and commitment earned me an offer for the role of a permanent employee. Using my strong foundation in and Python programming, I contributed to modifying and developing new REST APIs, Angular applications, AWS and setting up the CD infrastructure for a centralized service. Consistently exceeding expectations and being a strong performer, I was recognized and awarded multiple prizes and several appreciation emails. This professional association enabled me to learn multiple tech stacks and implement practical solutions with utmost commitment to deliver impactful work while working within strict boundaries of time. I intend to complement my learning in the industry with a master's degree in to develop skills that will be valuable in my goal to build optimized networks and systems.
in promises to give me a taste of all aspects of networking and systems pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights which insights on the prospect of uncertainty of the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses on the pertinent to my areas of interest. I wish to gain insights in this direction, by opting for courses of interest of interest of the pertinent to my areas of interest of inter
The heavy influence technology has on our minds is exponentially greater than any previous generation. It is of paramount importance that we solve issues in a manner that does not have profound negative impacts on the human mind and solvety. The wealth of knowledge I will amass from graduate courses, combined with my strong foundation in and experience in conducting research will equip me with technical skills to build scalable, efficient, and ethical software and systems.
Initiatives such as CommUniver ty are specifically relevant to my interests and highlight the support that provides for holistic development. Furthermore, I am keen on joining student organizations such as and to collaborate with like-minded individuals from across distiplines, as well as be in touch with its illustrious Alumni Network.
I am glad that the mission of selection is to ensure the responsible development of systems and networks to benefit so ety. It reassures me that will be the perfect university for me to explore the interdistiplinary links between networking, algorithms, and governance for the betterment of so ety.

### **EVALUATIONS**:

How long have you known the applicant: 2-3 years How do you know the applicant:

PROVIDE YOUR OVERALL RECOMMENDATION FOR THIS APPLICANT. Highest

# **Letter of Recommendation**

October 28, 2021

your esteemed university. I was the guide for his undergraduate thesis project and have been associated with him for over a year. is an enthusiastic student with a strong interest in solving real-time problems.
approached with an idea for community detection on twitter in his final semester. Being a student who had no prior experience with , he took it upon himself to implement the stance detection algorithm and was surprised with the short amount of time it took him to get up to speed with the intricacies of the subject. He made use of all the resources available and studied the course material in order to unblock himself. When faced with a multitude of questions regarding the scope of this project, was able to quickly turn it into one that had a practical use case. was always meticulous with his preparation regarding presentations and always took the lead in explaining scenarios that were questioned. He was successful in implementing a novel method of bias detection that would classify twitter user accounts as bots that are pretending to be users. single handedly handled all the documentation and paper writing which led to the submission of the draft to various conferences before deadline stress. This study was published in
journal and was very well received by the panel members.
was part of a full time internship and worked on the project simultaneously during his final semester. The project was one of the first ones to get accepted in the International Conference on
was also very active in volunteering his time towards the university's co-curricular activities. He was part of for over 3 years and the student head for a period of two years. He has organized various events and always ensured that he managed his course work alongside his contributions to the club. is a talented and has won accolades for the same in college fests. He is very enthusiastic about his endeavours be it in academics or beyond. I would place in the top 5% of his batch academically and put him in the top 2% overall. Given his excellent work ethic, motivation, and desire to excel, I have no doubt he will excel in your program. I recommend him without any reservation. Please feel free to contact me regarding any additional questions.
Bhaskarjyoti Das Professor, and Engineering Bangalore,

### **EVALUATIONS**:

How long have you known the applicant: 4 years How do you know the applicant: Professor

PROVIDE YOUR OVERALL RECOMMENDATION FOR THIS APPLICANT. Highest

# **Letter of Recommendation**

October 18, 2021

This was achieved by clustering microcontrollers in physical proximity to use a single device for connecting to the edge device. This link was secured using an efficient tunnelling protocol for all communication. This approach was built for and tested on an automated classroom setup and
communication. This approach was built for and tested on an automated classroom setup and was successful in preventing packet sniffing and external control of the devices which could make them a part of a botnet. This approach required no changes in the existent
architecture and only minor changes in the network topology. The research resulted in a paper presented at
Engineering series. To and published in the Springer Lecture Notes in Electrical Engineering series. To squirky and out of the box thinking was seen when the team had to solve issues with hardware. He was able to overcome tunnel vision by repeated swapping of work between team members that led to quick resolution to the problems that arose. He proved to be capable of delegating work that maximised each team member's skills and working in a dynamic environment.
I am of the opinion that is prepared for graduate school on account of his proven persistence, resilience, and analytical ability. His industrial experience which involved building end to end applications has given him a better idea about the practical aspects of and will aid his ability to fulfil the requirements for graduate school. With great conviction I can recommend that would be an excellent fit for your graduate cohort.
Prof. H B Prasad
Director,, Forensics and Cyber Resilience

### **Additional Points**

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- Hari's observational skills and awareness was seen when he was able to detect a security flaw in one of the lab's entrances where the fingerprint lock would shut off in case of a power failure and the door would unlock.
- Hari is an extremely efficient organizer when it comes to events and is a talented beatboxer who can entertain crowds. He stood first in the talent show held in the department.

### **EVALUATIONS**:

How long have you known the applicant: 2 years How do you know the applicant: Manager

PROVIDE YOUR OVERALL RECOMMENDATION FOR THIS APPLICANT. Strong

### **Letter of Recommendation**

November 21, 2021

