

# SATHVIKA BHAGYALAKSHMI MAHESH

☎ +1-(929) 866-5248 ✉ sb8913@nyu.edu 📄 Sathvika B M 🌐 SathvikaBM

## EXPERIENCE

---

### Apptio, Bangalore, India

Feb'22-Mar'22

Software Development Engineer Intern(Python, PostMan, RestAPI)

- Automated creation of new datalink connector that ingested data into Apptio model at least every 30 days
- Improved uploads and performance by devising connectors to run parallelly, speeded up the monitoring process by 60%
- Formulated resources previously spent on manual upload and reduced it by 85% through scheduled connectors

### Microsoft, Hyderabad, India

May'21-July'21

Software Development Engineer Intern (C sharp, PostMan, NodeJS)

- Updated certificates from time to time with 90 days roll-over feature for protection from third-party interference
- Exposed APIs using Driver Framework for secure end-to-end encryption that supported 500,000 devices on the cloud
- Performed health checks to monitor systems operations, which reduced the processing time from 60 to 6 hours

### Microsoft, Bangalore, India

July'20-Aug'20

Mentee, Engage Mentorship Program (CSS, HTML, JavaScript)

- Developed a game called Mars Rover to find the shortest path between source and destination with a cost factor
- Deployed nearly five different algorithms, including A\*, DFS, BFS, and Dijkstra's, for path finding
- Secured 4th prize out of 17 teams participating from across the nation in the game designing competition

### Indian Institute of Science, Bangalore, India

April'20-Dec'20

Research Intern (Python, OpenCV)

- Computed the majorly contributing factor, (3/17) factors for analyzing pavement condition for maintenance
- Calculated pothole and crack area with reference object using open CV functions like blob detection and contour area

## PROJECTS

---

### Automatic Playlist Recommendation

- Retrieved data using the Spotify API with an accuracy of 95% and ten-fold cross-validation
- Classified songs based on characteristics like tempo, danceability, and acousticness from 1 million database

### Navigetter

- Created web application to display time and distance of 50 closest locations like banks, restaurants, malls
- Utilized Map-box API to get required data about the user's current location for navigation through nearby routes

### Healthxpert

- Developed a healthcare web application integrates disease prediction and a chatbot for symptom-based prediction
- Achieved 90% accuracy in predicting PCOS by leveraging ultrasound image analysis techniques for infection detection

## SKILLS

---

Courses      Operating System, Database, DevOps, Vision meets ML, Fundamental Algorithm, Programming Language

Languages    Java, C++, C, C#, Scala, OCaml, JavaScript, Python

Tools         RestAPI, Git, SQL, ReactJS, NodeJS, OpenCV,

## EDUCATION

---

### New York University - Courant

Master's in Computer Science

2022 - Present

New York, USA

### National Institute of Technology, Surathkal

Bachelor of Technology

2018 - 2022

Karnataka, India

## LEADERSHIP/ ACTIVITIES

---

- **Vice Captain-** NITK, College Basketball Team of 15 members
- **Executive Member-** of Indian Society for Technical Education 150+ members, event-coordinator
- **Summer Mentorship Program-** mentored 60 juniors for four weeks and taught them MATLAB
- **Singer-** given stage performances for TV and radio shows, won over 150+ prizes