

# Abhinaya S.B.

sbabhinaya@gmail.com | linkedin.com/in/sbabhinaya  
bit.ly/sbabhinaya

## EDUCATION

### NIT TRICHY

**B.TECH. (HONS.) IN COMPUTER SCIENCE AND ENGINEERING**  
2015-2019 | Tiruchirappalli, India  
2<sup>nd</sup> rank in batch of 103 students  
Cum. GPA : **9.74 / 10.0**  
Hons. GPA: **9.0 / 10.0**  
Major GPA: **9.75 / 10.0**

### CHETTINAD VIDYASHRAM

Grad. May 2015 | Chennai, India  
AISSCE: **481 / 500**  
100% in Computer Science

## COURSEWORK

### UNDERGRADUATE

Computer Architecture  
Operating Systems  
Mobile Application Development  
Computer Networks  
Pattern Recognition  
Database Management Systems  
Data Warehousing & Data Mining  
Natural Language Processing

### ADDITIONAL COURSES

Usable Security  
Deep Learning

## SKILLS

### PROGRAMMING

Over 5000 lines:

C • C++

Over 1000 lines:

Javascript • Python • Android dev  
Tensorflow • HTML/CSS

Familiar:

Assembly • MATLAB • MySQL  
Network Simulator •  $\text{\LaTeX}$   
Java

## EXTRACURRICULARS

### VOLUNTEERING

Public Speaker, **Toastmasters**  
Technical lead, **Yogavaidhyam**  
Content writer, **Personal blog**

### HOBBIES

Digital poster designing  
Video editing  
Carnatic music vocalist  
Keyboard player

## EXPERIENCE

### QUALCOMM

Engineer | December 2020 – Present | Bangalore, India

- Software Architect working on Snapdragon's AI processor

Associate Engineer | July 2019 – November 2020 | Bangalore, India

- Developed & maintained a test suite for Snapdragon's AI processor
- Presented work in Qualcomm's internal (all-site & India-only) conferences

Interim Engineering Intern | May 2018 – July 2018 | Bangalore, India

- Analyzed Google's Pixel Visual Core based image capture

## RESEARCH & PUBLICATIONS

### CHATBOT FOR EDUCATION | SUPERVISED BY PROF. JAYA NIRMALA

January 2019 – May 2019 | NIT Trichy, India

Developed a chatbot with Question Answering & Quiz Generation capabilities for any given input material, targeting text-based subjects studied by middle school students. The work was published in the proceedings of Grace Hopper Celebration India, 2019. [Paper]

### IIT HYDERABAD | ASSISTED PROF. SPARSH MITTAL

December 2018 – January 2019 | Hyderabad, India

Worked on system-level optimization of ADV algorithms for low-power embedded real-time systems. The research was presented at Intel India Research Colloquium, 2019.

December 2017 | Hyderabad, India

Assisted in writing a survey paper on security in GPUs, published as "A Survey of Techniques for Improving Security of GPUs" in Springer's Journal of Hardware and Systems Security. [Paper]

### CLUSTERING PROTOCOL FOR WSN | SUPERVISED BY PROF. B. NITHYA

October 2017 – November 2017 | NIT Trichy, India

Developed a cluster head selection & data communication protocol for Wireless Sensor Networks. The algorithm indicated an improvement in network lifetime by 150% and was presented at GUCON 2018. [Paper]

### IIT BOMBAY | EKLAVYA INTERNSHIP, SUPERVISED BY PROF. D.B. PHATAK

May 2017 – July 2017 | Mumbai, India

Developed an animation framework to teach Chemistry concepts via 3D animations. The work was supported by National Mission on Education through Information and Communication Technology (NME-ICT), India. [Presentation] [Demo]

## ACADEMIC ACHIEVEMENTS

- 2019 Speaker at **Grace Hopper Celebration, India, 2019**
- 2017 Selected for **IIT Bombay's Eklavya** internship based on merit (1<sup>st</sup> rank in CSE batch)
- 2016 **Institute topper** award for obtaining the highest CGPA in 1<sup>st</sup> year of B.Tech
- 2016 **Chainulu Medal of Excellence** for obtaining the highest CGPA in 1<sup>st</sup> year in CSE dept.
- 2014 Rank 626 (out of 50K) in **KVPY** conducted by IISc, Bangalore

## POSITIONS OF LEADERSHIP

- 2021 **Vice President, Public Relations, Qonverse**, Toastmasters club at Qualcomm
- 2017-18 **Head, Content for Festember**, annual cultural festival of NIT Trichy
- 2018-19 **Manager, Content for Pragyan**, ISO certified tech fest of NIT Trichy
- 2018-19 **Manager, Content for Computer Science and Engineering Association**, NIT Trichy
- 2016-17 **Deputy Marketing Manager, Vortex**, technical Symposium of CSE dept., NIT Trichy
- 2015-16 **Executive Committee Member, NSS**, CSE dept., NIT Trichy