

# Abhinaya S.B.

Linkedin | Homepage  
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## 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**

### CHETTINAD VIDYASHRAM

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

## COURSEWORK

### UNDERGRADUATE

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

### ADDITIONAL COURSES

Deep Learning  
Embedded C

## SKILLS

### PROGRAMMING

Over 5000 lines:

C • C++

Over 1000 lines:

Javascript • Python • Assembly  
Tensorflow • HTML/CSS

Familiar:

Android • Matlab • MySQL  
Network Simulator •  $\LaTeX$

## EXTRACURRICULARS

### PRESENT

Technical lead, **Yogavaidhyam**  
Contributor, Qualcomm's newsletter  
Poetry writer  
Carnatic vocalist  
Keyboardist

### PAST ACTIVITIES

**Member**, Music club of NIT Trichy  
**Mural Painting**, SPIC MACAY  
2<sup>nd</sup> prize, **Qawwali**, NITTFEST  
2<sup>nd</sup> prize, **Villupaatu**, NITTFEST  
1<sup>st</sup> prize, **Battle of Bands**, Aaveg  
**Football**, *Sportsfete*, NIT Trichy

## 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

### WECF

Winter Intern | December 2016 – January 2017 | Bangalore, India

- Developed an end-to-end Client Management System
- Drafted technical articles for the company's official blog

## RESEARCH

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

January 2019 – May 2019 | NIT Trichy, India

Developed a chatbot with subject-specific Question Answering & Quiz Generation capabilities. Paper published as part of proceedings of GHCI, 2019.

### 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, presented in Intel India Research Colloquium, 2019.

December 2017 | Hyderabad, India

Wrote 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.

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

October 2017 – November 2017 | NIT Trichy, India

Developed a clustering protocol for Wireless Sensor Networks; paper in IEEE Xplore.

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

May 2017 – July 2017 | Mumbai, India

Developed a "Database to Animation Framework" to teach Chemistry concepts through 3D animations. Programme was supported by NME-ICT, India.

## ACADEMIC ACHIEVEMENTS

- 2019 Speaker at **Grace Hopper Celebration, India, 2019**
- 2017 Selected for **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.
- 2015 **Zonal Rank 4** in **National Cyber Olympiad** by Science Olympiad Foundation
- 2014 Rank 626 (out of 50K) in **KVPY** conducted by IISc, Bangalore

## POSITIONS OF RESPONSIBILITY

- 2017-18 **Head**, *Content for Festember*, annual cultural festival of NIT Trichy
- 2017-18 **Editor**, *The Festember Blog*, the official creative outlet of Festember
- 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