Abhinaya S.B.

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EDUCATION

NIT TRICHY
B.Tech. (Hons.) in Computer Science and Engineering
2015-2019 | Tiruchirappalli, India
2nd 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
Java

EXTRACURRICULARS

PRESENT
Creative lead, **Yogavaidhyam**
Contributor, Qonverse
Writer [Blog]

PAST ACTIVITIES
Member, Music club of NIT Trichy
2nd place, **Qawwali**, NITTFEST
2nd place, **Villupaatu**, NITTFEST
1st place, **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

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 Bomaby's** Eklavya internship based on merit (1st rank in CSE batch)
2016	**Institute topper** award for obtaining the highest CGPA in 1st year of B.Tech
2016	**Chainulu Medal of Excellence** for obtaining the highest CGPA in 1st year in CSE dept.
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