Rohan Chacko

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Education

2017–present **B.Tech in Computer Science Engineering**, *International Institute of Information Technology*, Hyderabad, *CGPA - 8.65*.

2016–2017 **Senior Secondary, CBSE**, *Delhi Private School*, Sharjah, U.A.E, *96.8%*.

2014–2015 **Secondary, CBSE**, *Delhi Private School*, Sharjah, U.A.E, *CGPA - 10*.

Work Experience

Monsoon 2019 **Honors Research**, *Centre for Visual Information Technology*, IIIT Hyderabad.
Working on 3D Human Reconstruction under Prof. P.J Narayanan and Prof. Avinash Sharma

Monsoon 2019 **Teaching Assistant**, *Data and Applications*, IIIT Hyderabad.
Involves holding lab/tutorial sessions, creating problem sets and grading assignments

Aug-Nov 2018 **Research Assistant**, *Five Fingers Innovative Solutions*, Hyderabad.
Created a software to detect and track medical equipment in a 2D video using featureless edge based template matching with a set of mesh models. Technologies used: OpenCV, Python, Blender

Major Projects

Resume parser **Developed an application to parse resumes and auto-generate questions**.
Created an application to parse resumes and auto-generate questions based on a resume for applicant filtering and ranking. Technologies used: gensim, scikit-learn.

Mobile Ad-Hoc network **Developed an application to create a mobile ad-hoc network during natural disasters**.
Each node in the network sends its location co-ordinates to every other node in the network. This allows for faster detection and rescue of people in dangerous areas.

AI Bot **Extreme Tic-Tac-Toe Bot**.
Developed an AI bot that plays a variant of tic-tac-toe using minimax algorithm with alpha-beta pruning and a smart heuristic function to find the optimal move.

Proxy Server **Multi-threaded HTTP proxy server**.
Created a web proxy server using socket programming. Implemented LRU caching, user authentication, URL blacklisting.

Bash Shell **Implemented a linux shell in C similar to bash**.
Created a shell using system call libraries in C to implement command parsing and execution. Features included: piping, I/O redirection, signal handling.

WebGL Game **Subway Surfers 3D Game**.
Created a 3D variant of subway surfers using WebGL. Implemented real world player motion, collision detection, textures, lighting

Achievements

2019 **19th position globally** for BountyCon 2019. Organized by **Google and Facebook**

2019 **16th position nationally** for InCTF organized by Amrita university

2018 Won **1st Runner's up** for Microsoft CodeFunDo Hackathon

2018 Selected for Dean's List for Academic Excellence. Awarded to top 5% of the batch

2014 **One of 90 Global Finalists** for the Google Science Fair.

2014 Won the prestigious Sheikh Hamdan Award for overall excellence in curriculars and extra-cuuriculars. Awarded by the Finance Minister of U.A.E to the top performing students of the country.

Relevant Courses Taken

Vision track: Statistical Methods in AI*, Digital Image Processing*, Artificial Intelligence, Digital Signal Analysis

CS track: Data Structures, Algorithms, Computer Networks, Operating Systems, Systems Architecture, Database Systems, Graphics, Automata Theory

Mathematics track: Graph Theory, Linear Algebra, Probability Theory, Discrete Mathematics, Complex Analysis, Group Theory

*=Course in progress

Technical Skills

Programming and Scripting: C, C++, Python, Matlab, Javascript, Java, Bash, Go, HTML5

Frameworks: Django, Flask, ReactJS, Materialize, Bootstrap

Miscellaneous: Pytorch, Scikit-learn, Android Studio, Git, OpenGL, WebGL, MySQL, SQLite3, Neo4j, BaseX, Solr

OS: GNU/Linux, Windows