

SAMEERANA RAO

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SUMMARY

Graduate student majoring in Computer Science with solid knowledge of core areas, actively seeking a job in the software industry.

EDUCATION

- **Arizona State University** (Aug'15-Present)
MS in **Computer Science**
- **National Institute of Technology Karnataka, Surathkal** (Jul'11 – May'15)
Bachelor of Technology in **Computer Science and Engineering**

PROFESSIONAL EXPERIENCE

Software Developer Intern at Rithmio Inc.

Worked on development of gesture recognition based fitness app, Rithmio EDGE for Android. Improved the database architecture of the system, synchronization with smartwatch, and integrated the app with Google Fit SDK..

Play Store link: play.google.com/store/apps/details?id=com.rithmio.edge

Research Assistant, Cyber-Socio Intelligent Systems Lab, ASU

Worked on dark web cyber threat intelligence research where I developed scripts to scrape Tor based websites, using Python, Selenium and Mechanize.

ACADEMIC PROJECTS

- **TeamSelect – An android application to form groups and set up group meetings for class projects.**
Implemented with Android Studio for the client and NodeJS and MongoDB for server
Maps integration for suggesting optimal meeting places based on location of each team member.
GitHub link: github.com/snrao310/TeamSelect_Client , github.com/snrao310/TeamSelect_Server
- **Loop Subdivision extension to Half Edge Mesh library**
Extended the Half Edge Mesh library for C++ to include a function for triangle mesh Loop subdivision.
GitHub link: github.com/snrao310/LoopSubdivision-for-HalfEdgeMesh-Library
- **Differential Pulse Code Modulation Implementation for Video Transmission**
Implemented predictive encoding, feature extraction, quantization, lossless encoding using LZW and Arithmetic encoding, as well as decoding for a video with the help of OpenCV library using Python.
GitHub link: github.com/snrao310/Video-Feature-Extraction
- **Improvement of Remy Generated Congestion Control Algorithms**
Improved the automatic congestion control algorithm generation tool, Remy, at intermediate routers to achieve better results for congestion control after analysis and reverse engineering.

TECHNICAL SKILLS

- Operating Systems: Windows, Linux
- Applications/Tools: Android Studio, MySQL, ns-2, Git, Logism, Adobe Photoshop
- Programming Languages/ Libraries: Java, Python, C, C++, SQL, HTML, XML, CSS, Bootstrap, JavaScript, NodeJS, MongoDB

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Awarded Certificate of Merit by CBSE for being among the top 0.1% of passed students 2009 AISSE Class 10 examination and for being among the top 1% of passed students in 2011 AISSCE Class 12 examination.
- Volunteer for Micro-Observer Webcasting team of Election Commission of India for LS-Election 2014.
- Active competitor on coding website codechef.com with handle 'sam18' and a long contest national rank of 366.