

R B Krishna

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EDUCATION	B.Tech in Computer Science and Engineering National Institute of Technology Tiruchirapalli, India - CGPA of 7.25/10 Higher Secondary School (CBSE) - Maharishi Vidya Mandir - 96.00%	2014 - 2018 2010 - 2014
EXPERIENCE	Software Engineer II, Compass Inc. Working with mobile team to deliver applications and services crucial to the platform. Senior Software Engineer, Arcesium LLC. Worked on design, infrastructure and development of pricing applications Worked on end-to-end development of APIs for LIBOR Cessation Software Engineer, Arcesium LLC. Worked with pricing team to deliver products crucial to the Arcesium platform. Worked on designing and developing a new application to parse/snap prices. Developed and onboarded multiple clients to an in-house quantitative finance platform. Tools - Kotlin, Spring, Gradle, Docker, Kubernetes Software Engineering Intern, Arcesium LLC. Developed a Self service tool for data uploaders - web service for price upload. Developed a maintainable, configurable and extensible parser for parsing price files and persisting into the Arcesium platform. Software Engineering Intern, Sportscafe Worked on designing and building the Android application from scratch for sports feeds, articles and scoreboards. Tools - Java, Android, Gradle	Nov, 2020 - Current Jan, 2020 - Oct, 2020 July, 2018 - Dec, 2019 May, 2017 - July, 2017 Nov 2015 - Dec 2015
PUBLICATIONS	R B Krishna "Repair pipelining for Clay-Coded Storage", COMSNETS, 2021	(Accepted)
TECHNICAL SKILLS	Strengths - Software Engineering, Distributed Computing, Parallel architecture and processing Languages - Java, Kotlin, Javascript, SQL, C, C++ Tools/Frameworks - Spring, Gradle, Mybatis, Vert.x, SQL Server, Docker, Kubernetes, Git	
RELEVANT COURSES	Design and analysis of parallel algorithms, Parallel Architecture and Programming, Big Data Analytics, Computer Architecture, Data structures and algorithms, Operating systems, Database management systems, Computer networks, Discrete Mathematics, Mobile application development	
PROJECTS	All projects are available on GitHub <ul style="list-style-type: none">• Repair pipelining for Clay-coded storage <i>Mentored by Dr. Lalitha Vadlamani, SPCRC, IIIT, Hyderabad</i> Designed enhancements to clay codes using repair pipelining technique. Built a working distributed file storage prototype incorporating clay erasure coding Added repair pipelining implementation for clay codes to improve performance and reduce bandwidth• Raft Consensus Developed an extensible Raft consensus protocol interface Main features include implementation of leader election, log replication and safety. Added implementations with spring-web, vert.x, Kubernetes.• Distributed file sharing Built a distributed file sharing platform using vert.x servers as cluster	Mar, 2020 - Oct, 2020 Aug, 2019 - Oct, 2019 Jan, 2018 - May, 2018

Clients can choose to become servers for indexing or stay as leechers in the platform
Uses Apache ignite as cluster manager, data store and websocket clients to handle chunked files

- **Eclipse Vert.x** Dec, 2017 - Feb, 2018
Vert.x is a polyglot reactive toolkit developed by the Eclipse Foundation.
Worked on [adding support for HTTP-2 features such as web push and link preload](#) to the vertx-web project.
Also worked on [adding configurable suffix for compressed files](#) and tests.
- **Pragyan Android** Dec, 2016 - Mar, 2017
Lead a team of 8 developers to design and develop a modular android application
Supported all 3 of the college fests - Pragyan, Festember and NITTFest using build flavors
Used state of the art technologies such as RxJava, Dagger2, Retrofit, Firebase.
Includes a smart assistant using API.AI and a PokemonGO-like augmented reality game.
- **Popview Android**
Android library available on Jcenter with over 400 stars on Github.
Produces a pop animation with circular dust effect for view updation with/without trackback animation.

POSITIONS OF
RESPONSIBILITY

- Lead Android Developer, Deltaforce - Coding club of NITT
- Head, WebOps, Entrepreneurship cell of NITT
- Manager, Social responsibility team of Festember, NITT

ACHIEVEMENTS

- Pre-placement offer at Arcesium India Private Ltd, India.
- Winner at inGenius Hackathon 2016
- Top 5 at inOut Hackathon 2017
- Runner up, Sangam, Pragyan 2016
- Secured Rank 3734 among 14 lakh students in JEE Mains