







PERSONAL DETAILS

Name	 Rahul De
D.O.B	 19 January 1992
Web	 http://in.linkedin.com/in/crossplatform
Contact	 +91 9502183833
Email	 rahul080327@gmail.com



EXPERIENCE

Alcatel - Lucent	Summer Intern	MartMobi	Backend Infrastructure Engineer
Telesonic Networks Ltd.	Developed a piece of software that manages the entire east india region airtel traffic. This software takes the local excel sheet containing the entire logs from the east india region and converts it into a relational dataset that maps phone numbers to card ports, which can then be accessed via a intuitive GUI to access the areas of the problem. Reduced the duration from a month to seconds.	Technologies Pvt Ltd.	Working on developing and maintaining the company infrastructure based on Node.js, Ruby on Rails, Elastic Search and Key-Value stores like MongoDB and Redis. Also responsible for developing efficient and scalable server architectures based on tech like HAProxy, NGINX, HHVM and Node.js and optimize them.
June 2013 - July 2013		June 2014 - present	



PROJECTS



Medusa: A new efficient JIT implementation for the Python Language focussing on speed; JIT compilation, adaptation & persistent caching methods based on Google's Dart VM. This opensource project was selected for PyCon India 2014 and can be found at <https://github.com/rahul080327/medusa>



Terminator++: A fully featured online development platform supporting a C, C++, C# compiler and an online terminal. Implemented using basic web technologies such as HTML5, CSS3, JavaScript & HipHop Virtual Machine.



The V2 Cipher: Designed and implemented an entirely new hybrid stream cipher specially for networks incorporating very fast data operation, hardware optimised block sizing, heuristics & a very large permutation space resisting brute force attacks. This is also an opensource project and can be found at: <https://github.com/rahul080327/V2>



Distro - Easy Query Language: Designed & implemented a completely new distributed cross platform DBMS, which defines its own language standards based on JAVA RMI.



Search Me: Redesigned & implemented a new theoretical concept of pre-indexed searching ranking via efficient methods using linear algebra.



Untitled Multiplatform Game: Developed the a 3D RPG game on Unreal Engine 3 by developing the maps and adding the AI script using the Unreal Script. This game can be deployed for Xbox 360, PC and iOS. The characters models and the animations were downloaded from opensource sources.



Animalistic: A basic machine learning based artificial intelligence application which implements a new $O(n)$ complexity algorithm to serialize and deserialize binary trees to and fro from the disk. This project has been implemented in C, C++ and Java.

Other significant projects include:

iCopy: A cross platform replacement to the native file handling operations.
ObjArchiver: A cross platform file archiving tool that implements its own custom archiving techniques.



EDUCATION

High School	M.P. Birla F.H.S School, Kolkata (ICSE) - 87%
Secondary School	M.P. Birla F.H.S School, Kolkata (ISC) - 80%
College	VIT University, Vellore (B.Tech CSE) - 8.4 CGPA



PROFILE



Hi,

I am recent graduate fresh out of VIT University looking for full time employment. I am from Kolkata, India and I am open to moving to any place. I love anything and everything related to computers, especially programming and development. I don't mind getting my hands dirty with back-ends and game engines and I am a very versatile developer. Go further down to see why I am the man you need to hire!



PUBLICATIONS



Cost Effective PolyVernam Cipher with Cache Optimizations

Journal Of Theoretical & Applied Sciences (Scopus Indexed)
ISSN: 1992 - 8645, Vol: 58, No: 3, page numbers: 672 - 677



An Algorithm to Search for an Algorithm in a Relational Dataset - A Precursor to Generative Programming

Journal Of Theoretical & Applied Sciences (Scopus Indexed)
ISSN: 1992 - 8645, Vol: 56, No: 24, page numbers: 244 - 251



A Theoretical Concept for Improving Network Routing using Communication Packets and Intelligent Networks

International Journal of Recent Contributions from Engineering, Science & IT (Google Scholar Indexing)
ISSN: 2197 - 8581, Vol: 1, No: 2, page numbers: 37 - 39



ACHIEVEMENTS



Manager at VIT's Cultural Fest Riviera & also organized the first ever simulation of Planning Commission of India, The VIT Planning and Development Summit (www.vitpds.com). The website was also completely developed by me.



Won the first prize in the annual national aviation and space quiz organized by the aeronautical society of India and ISRO.



Constant Gold Medalist at inter-school sports in various events.



SKILLS



Specialities

C/C++, Java, PHP
JavaScript, Python,
Dart, C#



Tools / SDK

Qt, Visual Studio, Eclipse
Facebook's HHVM, Linux Kernel
Node.js, Unreal Engine 3, 3DS Max



Knowledge

Multi-Threaded Dev
Distributed Dev
Server Back Ends
Micro Optimization
x86 Assembly
Game Development
Basic AI programming



Hobbies

Movies
Music
Football
Table Tennis
Video games
Reading
Systems Engineering