Kaushal Mohan

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Education

Qualification	Institute	Board	Year of Graduation	Result
B.E. (Computer Science and Engineering)	PES Institute of Technology	Autonomous under VTU	2015	CGPA: 9.46
Class 12	CMR National Public School	CBSE	2011	94.4%
Class 10	CMR National Public School	CBSE	2009	95%

Projects

Breaking Netscaler Security – An OpenSSL based tool to test SSL feature in Netscaler

Made modifications to OpenSSL code to create more than twenty negative test scenarios, in an attempt to break the security of the Citrix product Netscaler, that uses SSL for security purposes.

Pushing Netscaler beyond limits – An OpenSSL based tool to perform stress tests on Netscaler

Wrote an OpenSSL based stress tool aimed at pushing the Citrix product Netscaler beyond its limits, by pumping a large number of requests simultaneously. Provided options for multithreading, multiprocessing, cipher selection, client authorization, protocol selection, etc.

Intelligent GATE Preparation Helper

Created the Intelligent GATE Preparation Helper, a software that helps students prepare for GATE by mining for questions based on a particular concept inputted by the user. By crawling through the videos available on the NPTEL website, a video that explains the solution to each question is also provided, along with the exact time frame where the solution is explained.

TestCo – An Online Test Center

Created TestCo, a software that creates a platform to take traditional paper-based tests online. Responsible for the design of the front end using Bootflat UI, the overall coordination of the 6 members in the Front-End team, as well as being the point of contact between the Front-End and Back-End teams.

Shop Safe – Debit Card Pin Sender

Designed Pin Sender, an Android app that enables a customer to enter his ATM pin on his own smartphone, instead of the shopkeeper's POS, while making a purchase using his debit card. Then, the pin is transferred to the shopkeeper's device in an encrypted format, on a secure, near field, wireless channel. This project was done under the mentorship of guides from the **Massachusetts Institute of Technology**, in the MIT Design Innovation workshop conducted by the MIT Media Labs, and was **featured in the Live Mint Newspaper**.

Travel Easy – BMTC Route Guide

BMTC Route guide is an application coded in Python, which enables the user to perform complex queries on route details of Bangalore Metropolitan Transport Corporation buses *offline*. Apart from the basic functionality, where the user can enter source and destination, and the software provides the set of buses that the user can take to get to the destination from the source, the software also provides a number of other features.

Parser for Bash

Designed a parser for shell scripts which supports better error reporting functionality in terms of determining the location and type of error, as compared to the existing parser used by Bash.

Maze Solver

Developed using Java, Maze Solver is an algorithms-based application to determine the fastest way to find your way out of a maze. The application asks the user for the details of the maze, and the preferred choice of destination.

College Admissions Counsellor

Created College Admissions Counsellor using Java that enables a student to choose a seat in a particular college and stream based on his/ her rank in a public exam. The software emulates the system of the Karnataka Common Engineering Test (KCET), but can be modified for different systems as well.

Work and Related Experience

SN	Position	Organization	Duration	Role
1	Intern	Citrix R&D India Pvt. Ltd.	Jan – Jun 2015	Developed two full-fledged tools based on OpenSSL, aimed at testing the Citrix product Netscaler.
2	Intern	Soft Galaxy Consulting Pvt. Ltd.	Jun - Aug 2013	Android app developer – developed two apps from scratch
3	Senior Correspondent	Sportskeeda	Jan 2013 - Dec 2014	Primarily a cricket writer. Also covered sports events and interviewed sportspeople.
4	Team Coordinator	ICICI Trinity	May - Dec 2013	Led a team of four, in a banking based idea competition. Qualified in top 14 out of more than 350 national teams.
5	Head, Publications Team	PESIT E-Cell	Aug 2013 - Dec 2014	Led a team of 18 writers in the PESIT Entrepreneurship Cell. Ran the blog and the Facebook page of the PESIT E-Cell.
6	Cricket Editor	Cricket Country	Jan 2014	Wrote opinions about the happenings in the world of cricket.
7	Chief Organizer, AT Talks, Aatmatrisha '14	PESIT	Feb - Mar 2014	Led a team of eight volunteers to organize the prestigious event "AT Talks" at PESIT, where successful sportsmen spoke about their journey. Also emceed the event.

Also organised and compered more than 10 events in PESIT and in CMR NPS, leading the organizing team in many of those events.

Leadership / Personality awards

- Awarded the CMR NPS Leadership Award and Scholarship in 2010 by the CMR Group of Institutions, for exemplary behaviour and outstanding leadership qualities.
- Elected as School Prefect, CMR NPS (2010-11)
- Elected as Vice Head Boy, CMR NPS (2009-10)
- Selected as Discipline Director, CMR NPS (2007-08)

Academic Accomplishments

- Ranked 331 in Common Entrance Test 2011, Engineering, conducted by Karnataka Examinations Authority, among more than 70,000 candidates.
- Ranked 339 in COMED-K, 2011, Engineering, among more than 45,000 candidates.
- Awarded Certificate of Merit for outstanding academic performance and for being among the top 0.1 % of successful candidates of CBSE Class X Board Exam 2009 in Social Science
- Awarded the Reserve Bank of India Golden Jubilee Scholarship in 2009 and 2011 for outstanding academic performance in Class X and Class XII respectively.
- Secured 3rd and 27th ranks in Karnataka in the International Informatics Olympiad 2007 and 2009 respectively.