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| J R Achyuthan | Fourth Year Dual Degree |
| Department of Civil Engineering | IIT Bombay |
| CPI | 8.30 |

Academic Achievements

* Department rank 3 among the Dual Degrees in Civil Engineering Department, IIT Bombay
* Recipient of AIEEE Merit Scholarship (All India Rank of 157, in 2009) amongst 1 million students
* Secured a national rank of 28 in the Nationwide Interactive Science Olympiad, 2008
* Ranked 198th internationally and 12th at the state level in International Informatics Olympiad 2008

Internships and Key Academic Projects

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| Internship at Gravitas Technology Ltd. | [May ’12-July ’12] |

* Engineered a Hedge Fund web application for an investment bank; designed the entire database structure and end to end work flow; provided suggestions for further development
* Application parsed mathematical expressions for displaying numerical records & evaluated them
* Incorporated features for reporting and auditing into the database structure; used MVC 3.0 architecture provided by Microsoft .NET framework

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| Seminar on Vehicle-Bridge Interaction |Guide: Prof. N K Chandiramani | [Aug ’12-Present] |

* Studied the effect of a moving massless point load, oscillating load, distributed load on a bridge
* Analyzed the modeling of a vehicle as a mass on two springs while it traverses the bridge

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| Design of an Adaptive Traffic Signal | Guide: Prof. G R Patil | [July ’12-Present] |

* Working on a model to implement fuzzy logic in an adaptive traffic signal; currently developing a technique to implement it via dynamic programming

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| Conference Management System TPMDC 2012 | [Jun ’12-Aug ’12] |

TPMDC at IITB is an ideal platform to share findings on transportation issues concerned with developing countries

* Designed and developed administrative interface for collecting reviews, disseminating submissions to reviewers, and reporting reviewers’ comments and committee decision to authors
* Revamped existing system; strengthened control over the process, catering to specific functionalities

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| Geometric Design of Pavements | Guide: Prof. G R Patil | [Feb ’12-Mar’12] |

* Developed a user-friendly interface using HTML, CSS and JavaScript to implement design standards for pavements in India; enables users to geometrically design pavements on the web
* Only project selected to be put up on the professor’s website

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| Fluoride Pollution of Drinking Water | Guide: Prof. Anurag Garg | [Aug ’10-Nov ’10] |

* Conducted a literary survey on the levels of fluoride in drinking water as part of the course project
* Reviewed different methods to reduce fluoride concentrationin drinking water
* Enlisted the best defluoridation processes for implementation at rural level at affordable rates

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| Mini National UID for IITB Campus | Guide: Prof. D B Phatak | [Sep’09-Nov ’09] |

* Developed a software for biometric authentication, to mark attendance in lectures
* Supervised coordination of 16 teams involving 80 students; ensured uniqueness of fingerprints

Software Skills

**Programming:** C++, C#, Scilab, Java

**Relational Database:** PL/SQL

**Web:** HTML, PHP, CSS, JavaScript, AJAX, jQuery

**Application Software:** AutoCAD, ETABS, SAP, Adobe Photoshop

Positions Of Responsibility

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| Department Academic Mentor | [Apr ’12-Present] |

* Guiding 5 academically weak students on a one on one basis to help improve their performance
* Spearheaded the Institute ‘Summer Project Allocation’ initiative in order to help offer summer projects to students from the second and third years

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| Web Manager, The Entrepreneurship Cell, IIT Bombay | [Apr ’11-Mar ’12] |

Led a two tier team consisting of over 80 volunteers to organize one international and two institute level initiatives

* Seamlessly integrated the components of 5 different websites into a single site in order to enhance the brand value of E-Cell, IIT Bombay
* Conceived a novel social media publicity plan for Eureka!—Asia’s Largest B- Plan competition, increasing the number of registrations by more than 100%
* Structured an online virtual business simulation game, Virtual Stock Market, and conducted it on a nation-wide scale for the first time with over 20,000 registered players
* Created an innovative user friendly interface for the game using jQuery and JavaScript.
* Designed a database structure to handle huge amounts of data with minimal redundancy
* Partnered with BSE (Bombay Stock Exchange) to conduct 13 stock market workshops in Mumbai
* Conceptualized a publicity plan involving college representatives from over a hundred colleges; increased the footfall of the Entrepreneurship Summit by over 90%
* Received NEN E-Leader certificate for promoting an entrepreneurial ecosystem in IITB campus

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| Web Development Manager, TEDxIITB | [Apr ’11-Mar ’12] |

TEDx gives organizations an opportunity to stimulate dialogue through conferences at the local level

* Part of the core team that organized the first ever TEDx event in IIT Bombay. The event included speakers of the stature of the serial entrepreneur Kanwal Rekhi and blogger Karamveer
* Enabled a live streaming of the TEDx event which attracted over 500 viewers from IIT Bombay

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| Computer Secretary, Hostel 3, IIT Bombay | [Apr ’10-Mar ’11] |

* Developed a system that stopped theft of computer peripherals from the computer room
* Organized workshop on Linux, LaTeX, Photoshop, Sony Vegas and other useful software

Extra-Curricular Activities

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| Entrepreneurial Experience | Schoolbook—an online platform for interaction of parents and school teachers   * Addresses issue of parent-teacher communication gap in metropolitan cities * Designed and developed an easy to use interface for the web application * Structured the database to make the application fast and efficient |
| Languages | * Deeply interested in languages; Currently pursuing French * Cleared JLPT N4 which is a certification of proficiency in Japanese language for non-native speakers; can carry on basic conversation in Japanese |
| Technical | * Awarded Hostel Technical Special Mention for excelling in technical activities * Achieved first position in the line following bot competition at institute level * Developed solar powered boat with a capability to store power for a short time * Created a remote controlled car which had a range of approximately 10m |