

EMAAD AHMED MANZOOR

📄 github.com/emaadmanzoor ✉ emaadmanzoor@gmail.com 🌐 halfclosed.wordpress.com

EDUCATION

University **BITS - Pilani University**, Goa Campus *August 2008 – present*
Degree B.E. (Hons.), Computer Science
Grade 8.05 on 10.00, after seven semesters

PROFESSIONAL PROJECTS

Company **Yahoo!**, Bangalore *July – December, 2011*
Role Intern
Technology N-gram language models, Distributed systems, Java, Perl
Project Scaled the search trend detection platform from single-node single-thread code serving a single locale to a centrally configurable distributed system across many nodes simultaneously serving multiple locales. (*Was one of the 3 interns offered a full-time position, out of 14 interns in total*)

INDEPENDENT PROJECTS

Project **Distributed Estimation of Pi** *March 2012 – Present*
Website www.eyeshalfclosed.com/blog/2012/03/17/throwing-darts/
Technology Distributed system design, Parallel algorithms, Beanstalkd
Description Built a fully worker-fault-tolerant and partly server-fault-tolerant cluster equipped with rudimentary distributed Pi estimation master/worker code. This project drew the interest of the faculty enough to grant us the opportunity to build the institute's distributed computing laboratory.

Project **Graphy** *August 2011 – Present*
Website emaadmanzoor.github.com/graphy
Technology Graph theory, Java, Swing
Description A teaching and self-learning tool to visualize graph theoretic algorithms step-by-step on graphs constructed on the software canvas; this has been adopted by a number of graph theory courses in academic institutes across India.

Project **Euler's Hammer** *February 2012 – Present*
Website github.com/emaadmanzoor/eulershammer
Technology Compiler design, Graph theory, Java, Swing
Description (*This project is a work-in-progress, a successor to Graphy*) A compiler that enables one to compile a pseudo-code description of a graph algorithm to a portable visual representation that accepts arbitrary graphs as input and simulates the provided algorithm step-by-step.

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| <i>Project</i> | Educational Physics Simulations | <i>February – May, 2012</i> |
| <i>Website</i> | github.com/racheesingh/Physics-Simulations | |
| <i>Technology</i> | Java, Swing | |
| <i>Description</i> | In contribution to a government-backed effort to provide interactive educational resources online, developed Java applets providing interactive user-configurable simulations of physical phenomena. | |

TEACHING EXPERIENCE

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|-------------------|---|-------------------------------|
| <i>Course</i> | Programming Languages & Compiler Construction | <i>January 2012 – Present</i> |
| <i>Role</i> | Teaching Assistant | |
| <i>Courseware</i> | github.com/racheesingh/Regular-Polygon-Generator | |
| <i>Course</i> | MIT Indian Mobile Initiative | <i>June – July, 2011</i> |
| <i>Role</i> | Student Mentor | |
| <i>Website</i> | globalchallenge.mit.edu/teams/view/148 | |
| <i>Course</i> | Software Development for Portable Devices | <i>January – May, 2011</i> |
| <i>Role</i> | Google-funded Teaching Assistant | |
| <i>Courseware</i> | bit.ly/emaadcourseware | |

AWARDS

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| <i>Awarder</i> | Random Hacks Of Kindness | <i>December, 2011</i> |
| <i>Website</i> | www.rhok.org | |
| <i>Award</i> | Winner, <i>in a team of three</i> | |
| <i>Project</i> | Twackboard; a minimal tracking device that tweets its location at a set interval rate, which is later picked up by an accompanying Android application. Intended to be placed in school buses to notify parents when to go pick up their children. | |
| <i>Awarder</i> | Google | <i>January, 2011</i> |
| <i>Award</i> | Student Fellow, <i>one of four awardees</i> | |
| <i>Awarder</i> | Ministry of Science and Technology , Government of India | <i>March, 2010</i> |
| <i>Award</i> | The Consultancy Development Cell Fellowship | |
| <i>Project</i> | Implementation of transparent and automated laboratory examination evaluation processes | |

OPEN SOURCE CONTRIBUTIONS

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| <i>Organization</i> | OpenIntents | <i>March, 2011</i> |
| <i>Contribution</i> | Implemented the proximity sensor in the Sensor Simulator. | |
| <i>Website</i> | code.google.com/p/openintents/source/detail?r=3280 | |
| <i>Organization</i> | O'Reilly Android Cookbook | <i>April, 2011</i> |
| <i>Contribution</i> | Contributed a recipe on mocking GPS coordinates on Android. | |
| <i>Website</i> | www.androidcookbook.com/Recipe.seam?recipeId=1229 | |