

Aditya Kappagantula

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GITHUB Link: <https://github.com/aditya-kappagantula?tab=repositories>

WEBSITE Link: bit.ly/adityak

WORK EXPERIENCE:

- **Student Assistant Website Developer, Edulix.com** **Current Employer**
 - Developed the feature to suggest universities based on GRE score and GPA
 - Developed the feature to display admission trends graphically across various universities
 - Improved the User Interface and User Experience on the website
- **Software Developer, Knolskape** **Jul'11 – Jul'13**
 - Developed strategy games and software simulations for MBA students
 - Performed quality analysis and sanitized 10 plus software products from bugs
 - Implemented software development standards and practices in the startup work environment
- **Intern Software Developer, Knolskape** **Dec'10 – Jun'11**
 - Developed a software game to train employees in answering customer queries using a website

EDUCATION:

San Diego State University, San Diego, USA

Master of Science in Computer Science

VIT University, Vellore, India

Bachelor of Technology in Information Technology

Aug'13 – Dec'14 [exp]

G.P.A: 3.56/4.00

July'07 - Jun'11

G.P.A: 3.69/4.00

RELEVANT COURSEWORK:

Advanced Object Oriented Programming & Design	Data Structures & Algorithms
Software Engineering	Spatial Databases
Multimedia & Web Technologies	Database Management Systems

PUBLICATIONS:

- Co-Author of the paper *Automation of Attendance Posting System Using Messaging Services* published in *International Journal of Advanced Research in Computer Science* with Prof. P. Kalyanaraman from VIT University.

RESEARCH:

- **Diction Analysis [Python]**
 - Assisted Prof. Elizabeth Demers, INSEAD in analyzing text from a 100 thousand conversations
 - Implemented text analysis and regular expression based string pattern search using Python
- **Packaging Boxes Volume Research Paper [Excel Solver, Visual Basic]**
 - Assisted Prof. Pierre Chandon, INSEAD in proving *perceived volume change* concept visually

PROJECTS:

Academic Projects

- **MSAMS** – Mobile Student Attendance Monitoring System, VIT University, 2009
 - Professor marks attendance in an offline mobile application which is sent to Server as an SMS
 - Server interprets encrypted SMS and updates corresponding database
 - Implemented Elliptical Curve Cryptography technique
 - Tested the project on 3000 plus students and also built a sister-software for a different scenario

- **An Object Oriented Banking Project using SmallTalk**
 - Implemented multiple user account types
 - Implemented multiple withdrawal types
 - Implemented processing transactions from text files
 - Wrote Automated Unit Test Cases
- **Object Oriented Heap Data Structure using Java**
 - Implemented a Heap tree using Java language
 - Placed the data structure in correct language hierarchy
 - Implemented strategy design pattern to make the heap act as Min/Max Heap
 - Implemented Null pattern to remove null checks in tree height
 - Implemented Iterator pattern to iterate over the heap
 - Wrote Automated Unit Test Cases

Previous Work Projects: [Adobe Flex, PHP, MySQL, HTML, JavaScript, JQuery, CSS & Shell scripts]

- **Common Admin Mode**
 - Designed plan to build a generic code base used to plug in user and report management features to existing/new software developed at Knolskape
 - Led a team of two developers in building it
- **Finance Simulation** – An online course in Financial Knowledge learning and assessment
 - Devised database and codebase change plan to reduce load on server by 400%
 - Led the development team in implementing the change plan
- **Accounting Simulation** – An interactive online Double Entry System learning software
 - Restructured database and codebase to implement *save and retrieve* feature in the software
 - Modified codebase to sell the software on 3rd party vendor's website using license model
- **Price Right** – An online multiplayer, Strategic Airline Pricing War game
 - <http://live.knolskape.com/pricing-sim/user?quest=1>
 - Developed the game from scratch and designed the User Interface and User Experience
 - Involved in development of backend model for the game
- **Ararat Case Study** – A software to track the approach in solving a Case Study using mind mapping
 - Coded the simulation from scratch and implemented a mind map to track the user activity
 - Designed the Database, User Interface and User Experience
- **Volvo Simulation** – An online game to train employees in answering customer queries using a website
 - Coded the simulation from scratch
 - Designed the User Interface and User Experience

Websites Designed [Wordpress, MySQL, PHP and JavaScript, i.e Full Stack, LAMP/WAMP]

- www.edulix.com – An end to end crowd sourced website/portal to support Graduate Studies aspirants
- www.emncstrategies.com – A website to market a book written by INSEAD B-School professors
- www.auditintel.co.uk – An ecommerce store to sell a 100,000 plus dynamically generated e-reports
- <http://bit.ly/adityak> – A personal website to display my works and speak about myself

REFERENCES AVAILABLE UPON REQUEST

WILLING TO RELOCATE