

RAJA NARASIMHA KARTHIK TANGIRALA

10001, Graduate lane, Apartment M,
Charlotte, NC 28262

Phone: 980-298-9646
Email: trnkarthik@yahoo.com

EDUCATION

Masters in Computer Science, University Of North Carolina at Charlotte, Charlotte.

GPA 3.5/4.0

Expected **August 2013**

Bachelor of Technology, Computer Science and Engineering, GITAM University, Visakhapatnam, India.

GPA 3.7/4.0

May 2012

EXPERIENCE

Graduate Research Assistant

October 2012-present

UNC Charlotte, Department of Software and Information Systems.

- Working on Choreographer's Notebook, a tool which allows multimodal annotation of rehearsal videos during the dance production process.
- Implemented many major modules like customized keyboard comments, media handling (HTML 5 video), ffmpeg video conversion, improved User Interface, image and video comments.
- Redesigned database to improve scalability.

Project Based Intern

Summer 2011

Rashtriya Ispat Nigam Limited - Visakhapatnam Steel Plant (RINL-VSP), Visakhapatnam, India.

- Developed a web based project module for computerizing 'Bala Cheruvu Gate', which acts as main entrance to Visakhapatnam Steel Plant.
- Developed a system for creation of LSGP (Loading Slip Cum Gate Pass). LSGP keeps track of the amount of steel purchased and delivered to the user. It also acts as a gate pass for the user vehicles.

Founder and Developer

November 2009 - November 2010

www.eventinside.com

- The project was used as an alternate to age old notice boards that are often found in educational institutions. We introduced online notice boards, where registered users can post events and notify other students in the university about these events. Successfully implemented this project in Gitam University, Visakhapatnam.

TECHNICAL SKILLS

- | | | |
|--------------------------------|---|---|
| • Programming languages | : | C, C++, Java. |
| • DBMS | : | Oracle (till 11g), Mysql, SQLite. |
| • Operating systems | : | Windows, Linux. |
| • Web Technologies | : | HTML, CSS, JavaScript, PHP, JSP, XML. |
| • Mobile Programming | : | Android Programming. |
| • Libraries | : | jQuery, AndEngine, Fpdf. |
| • Tools | : | Rational Rose, Tableau. |
| • IDEs | : | Eclipse, Activestate Komodo Edit 6.0, NetBeans. |

CERTIFICATIONS

- IBM Certified **Academic Associate in DB2 9 Database and Application Fundamentals.**
- Certified **Flash developer.**

WEB PROJECTS

Social Networking Website (at Gitam University)

December 2011 - April 2012

(PHP, MySQL, AJAX, Facebook API, Google+ API, HTML, CSS, JavaScript, Wamp Server)

- This main intent of this project is to enhance the social networking experience by introducing tools like wish and trick sharing applications, social diary, fame meter, display picture assignment application with other common tools like photo albums, user profiles and user connections.
- Integrated with other social networks like Facebook and Google plus.

Online Bookstore Management System (at Gitam University)

February 2011 - April 2011

(PHP, MySQL, HTML, CSS, JavaScript, Wamp Server)

- This is an e-commerce application, which consists master entry and customer entry.
- Master entry deals with administrative functions like adding new titles (books), adding new stock, modifying and deleting stock. Customer entry allows the user to order books.

UNCC Dorm Valet Web Application (at UNC Charlotte)

August 2012 - December 2012

(JSP, Servlets, MySQL, HTML, CSS, JavaScript, Apache Tomcat)

- This online system allows students of UNCC to order food from restaurants on the UNCC campus. This project automates and facilitates taking orders, ordering food from restaurants, calculating best route for order delivery, accepting payment, and paying restaurants.
- Developed web pages and business logic using J2EE and MVC architecture.

ANDROID PROJECTS

Hit the Frog –Android Game (AndEngine) (at UNC Charlotte)

November 2012 – December 2012

(Java, Android API, AndEngine Library, SQLite Database)

- This game is developed using GLES 2 Engine of AndEngine.
- This game have two modes
 - Push Mode: In this mode user have to hit the frog by pushing the ball.
 - Gravity Mode: This is similar to push mode except accelerometer is used to move the ball.
- SQLite Database is used to store scores and other user details.

Movie Reviewer –Android Application (at UNC Charlotte)

October 2012

(Java, Android API, JSON, Rotten Tomatoes API, SQLite Database)

- This application uses Rotten Tomatoes API to retrieve data related to 'Box Office Movies', 'In Theater Movies', 'Opening Movies' and 'Upcoming Movies'. User can also save his favorite movies in the local SQLite database. Advanced techniques are used to provide rich User Interface.

Picture Puzzle – Android Game (at UNC Charlotte)

September 2012

(Java, Android API)

- This application is a traditional puzzle game.
- Users can play puzzle with default application pictures or can even select pictures from their mobile gallery. Puzzles are sized in to 3*3 and 4*4.

Currency Converter – Android Application (at UNC Charlotte)

April 2013

(Java, Android API, Facebook API, Google Currency API, SQLite Database)

- Used Google currency API to update currency values and Facebook API to share currency updates.
- Used SQLite database to store user preferences.
- Followed Human Computer Interaction principles to design rich User Interface.

BMI Calculator – Android Application (at UNC Charlotte)

January 2013

(Java, Android API, Facebook API)

- This application is used to calculate body mass index. Used advanced HCI principles in UI design.
- Integrated with Facebook API to share updates.

OTHER PROJECTS

- **GenMEx Tool** (PHP, DHTML, CSS, JavaScript, Wamp Server).
- **Genome Gene List Finder Tool** (PHP, MySQL, HTML, CSS, JavaScript, Wamp Server).
- **Hospital Management System** (JSP, Servlets, HTML, CSS, Oracle 11g).
- **Survey Management System** (PHP, DHTML, CSS, Wamp Server).
- **Disco Lights generator** (Android Application).
- **Trivia Application** (Android Application-class project).