# KARTHIK NAIDU DJ

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## SUMMARY

R&D engineer with strong academic background, excellent problem-solving skills, and practical experience in building large-scale real-time systems.

## EDUCATION

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|---|---|---|
| MS in Computer Engineering, University of Florida. | GPA: 3.45/4.0 | Aug 2009 |
| BE in Computer Science, Visveswaraiah Tech University, India. | GPA: 4.0/4.0 | July 2007 |

## TECHNICAL SKILLS

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|---|---|---|---|
| **Programming:** | C, C++, Java, XML | **Scripting:** | Javascript, Perl, Python |
| **Databases:** | SQL Server 200x, Oracle 9i, MySql. | **OS/Architecture:** | Unix, Windows, OS X / Solaris, IBM |

## WORK EXPERIENCE

**Bloomberg LP, Software Developer, Trading Systems Team**                    **[Oct 2009 - Present]**

**Data-distribution server** (>X thousand quotes per second)
- Project lead for scaling this server; monitoring/fixing performance bottlenecks; responsible for expansion
- Technologies: C++, Multi-threading, FIX Application protocol

**Trading Setup Screens**
- Designed and built core setup screens for traders; Technologies: C++, Javascript, XML, Python
- Stats: ~50,000 hits per day, Bloomberg top 10 function, 0 major issues reported

**Scaled pricing infrastructure** (700 dbs migrated, services optimized for performance)
- Worked across the entire stack (UI fetch services, backend api, data distribution)
- Early warning and auto expand mechanism for Trading Systems databases
- Checks based on data size and machine load; run overnight, generate warnings

**Utility scripts, apis and email services** (in my own time)
- Daily portfolio status email to all traders; SVN checkin impact report
- Automatic boiler plate code generation for db access routines

**Added Responsibilities**
- Mentor to one full time junior employee, providing support and problem solving assistance.
- Technical Rep, providing technical guidance on software infrastructure issues.
- Bootcamp mentor for Bloomberg training classes for new hires.

**Bloomberg LP, Software Developer Intern, Application Software Team**          **[May – Aug 2009]**
- User analytics dashboard; scoring metrics; and recommendation for potential clients
- Designed and implemented Bloomberg wide user tracking and recommendation system

**SumTotal Systems, Software Developer Intern**                    **[July 2008 – December 2008]**
- Worked on enhancements for 'Performance Management' product,
- Contributed significantly to database design, and localization module development.
- Member of Sustaining Engineering Group (size 5) for fixing high priority client issues.

**HP – Hewlett Packard, Software Developer Intern**                    **[Jan 2007 - July 2007]**
- Spearheaded the development of Transport Scheduling System, successfully formulated optimal and cost effective routes for intra-city shuttles in one of India's most congested cities – *Bangalore*.
- Simulated Global Positioning System, to deliver real-time shuttle tracking and arrival information.

**ICRIS.net, Co-founder, Database Team Lead**                    **[May 2004 – Dec 2006]**
- Started this company as a part-time consulting business with friends to consult on small projects,
- Lead the backend team, worked on database design and designed UX framework.

**University of Florida, Web Developer**                    **[Jan 2008 – July 2008]**
- At the Web Implementation Center, I have done full product development cycle - gathering requirements, design, development and maintenance

**Globals Inc., Junior web developer**                    **[Jan 2000 – Dec 2002]**
- Early employee; junior web developer at the age of 14; pitch to clients and investors.

## SIDE/COURSE PROJECTS

- Jammmin: Music jamming and collaboration app with social integration, Role: Design-Product guy- Marketing;
- Woodpecker: Social community for Craftsman with showcase, friend notification system,
- OpenAuction: A trading auction app, (Java, multi-threading, concurrent programming)
- BitShare: A bit torrent file sharing app, optimized for performance with choking mechanism (Java/Swing application)
- SpamFilter - A production ready spam filter system, which meets real world accuracy metrics.

## AWARDS

- 'Graduate Student Achievement Award' at University of Florida
- Distinction Honors during Bachelors Degree.