

Chirag Mehta

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OBJECTIVE To obtain a senior-level developer position at an innovative startup where I can utilize my skills in web development, business process management, and project management to create user-friendly, scalable, and standards-compliant software applications.

EDUCATION **Coursework towards MBA, Concentration: Information Technology (21 credits completed)**
University of Tampa, Tampa FL, September 2008 – 2010.

B.S., Computer Science; B.A., Economics (Honors); Minor Mathematics
Rutgers University, New Brunswick NJ, May 2004. Seven-time Merit Scholarship Recipient.

Cumulative GPA: 3.9. Comp Sci. GPA: 4.0.
University Honors Program; Dean's List for seven consecutive semesters: Fall 2000 – Fall 2003.

EXPERIENCE

Independent Research **Computer Science Research:**

KType.net
2010 - Present
Self-funded research project to improve communication for individuals with speech & motor disabilities. Analyzed colloquial communication patterns on social networking site using n-gram modeling to:

- design optimal keyboard layout for 1-finger use by employing Quadratic Assignment Problem
- build in-memory, real-time, contextual suggestions engine with predictive auto-completion

Python, Amazon EC2

Software & Web Development:

Developed *KType for iPad* app with text-to-speech feature, editable keyboard layout, and multi-user capability using insights gained from independent research and working with end-users.
Objective-C, XCode, PhoneGap, CoffeeScript, jQuery, LessCSS, HTML5/CSS3, PHP5

IT Consultant
Formulated Solutions
2010 – Present

Enterprise Resource Planning (ERP) Implementation & Development:

Managed employees from various departments for the ERP implementation project. Enabled the company to increase work-center utilization by 400% over three years by developing software for efficient scheduling, planning, and resource management. Integrated financials, manufacturing, resource planning, and warehousing with:

Director of IT
Formulated Solutions
2004 – 2010

- Microsoft Dynamics NAV (Navision)
- automated purchase planning requisitions
- wireless bar-code scanners and kiosks
- custom shipping & load-plan module
- cGMP/FDA employee training matrix
- accounting module with fixed assets
- web-based MPS/MRP with forecasting
- quality control module for pharmaceuticals
- inventory costing: standard and FIFO
- process-engineering & workflow
- automated batch record printing (PDF)
- reporting in Excel and online dashboard

C/AL, Apache2, PHP5, MySQL, jQuery, Excel, JetReports, WM5/iOS

Software & Web Development:

Created system that successfully eliminated handwritten timesheets, relieved supervisors from manual verification of payroll hours, and enhanced employee satisfaction with new time-off application process. The new system efficiently managed timesheets, payroll records, and paid time off for employees and included:

- policies to standardize work hours, paid time off, and punctuality benefits
- RFID swipe-card with touchscreen UI
- online approval of requested days off
- web-based front-end for exempt employees
- employee attendance record summary

Apache2, PHP5, MySQL, jQuery, RS232 comm., Excel

Developed B2B e-commerce site for 1000+ SMB customers (\$4.5m sales) which reduced lead-times, improved payment collection, and minimized shipping inefficiencies and offered:

- secure customer shopping portal
- full-featured order processing system
- customer relationship management module
- online payment-processing
- secure user and administration panel
- multi-stage discounting, product pricing
- location-based distributor assignment
- real-time reporting via online dashboard

Apache, PHP4, MySQL, Flash, Photoshop, MS Access, Excel

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EXPERIENCE CONTD.

Systems, Networking, and Support:

Upgrading to VMware-based Citrix/TS servers enabled 60+ employees to use company systems without additional labor investment in IT. Implementing various IT systems enabled the company to reduce spending and improve communication across the enterprise. Solutions included:

- 25 virtual servers running on VMware ESX
- Citrix XenDesktop, XenApp for 60+ users
- hosted Exchange 2007 with Outlook
- corporate instant-messaging using OpenFire
- centralized printing and faxing
- real-time replication to colocation facility
- nightly replication of ERP data to offsite server
- iSCSI & Fiber SAN with block-level replication
- Active Directory, Windows 2003/2008
- web-filtering and reporting using WebSense
- company-wide Voice-Over-IP phones
- real-time network monitoring with alerts
- Cisco networking equipment, Dell hardware
- CCTV video surveillance using IP cameras

IT Administration and Technology Management:

- Introduced and formalized Information Technology Computing Policies
- Established company-wide Disaster Recovery and Redundancy Plan for IT
- Developed procedures for system & network startup, shutdown, and troubleshooting
- Managed IT Helpdesk staff and IT vendor projects
- Deployed and administered IT ticketing system for helpdesk requests and tracking

Co-Founder *SCHED.org* 2008 – 2009

Co-founded and developed SCHED.org as a social-conference scheduler for the SXSW Music & Film Festival in Austin, TX in 2008. Modularized SCHED.org codebase to support scheduling for various corporate, technology, and arts & entertainment events by providing:

- venue, event, and presenter search
- integration with Twitter for event attendees
- location-based searching using Google Maps
- event browser by popularity
- integration with Google Docs for admins
- support for iPhone/Blackberry browsing

Apache2, PHP5, MySQL, jQuery, Twitter API, Google Docs/Maps API

Wired.com interview: <http://www.wired.com/underwire/2008/03/sxsw-this-years/>

Co-Founder *Chime.TV* 2007 – 2009

Developed and launched Chime.TV, an award-winning video mashup with primary focus on enhancing viewer experience. Reengineered the interface and methodology for media sharing on the web to enable:

- full-screen, continuous, cross-platform video playback without desktop software installation
- full-text search-engine indexing 10m+ videos
- user-defined video streams and channels
- video mail, history, and friend management
- embed complete video channels anywhere

Flash AS2, JavaScript, Apache2, PHP5, MySQL, mediARSS, YouTube API

ZDNet interview: <http://blogs.zdnet.com/Berlind/?p=655>

Solutions Developer *Rutgers College IT* 2002 – 2004

Proposed, designed, developed, and successfully implemented broad range of financial, academic, and critical information management systems. Successfully eliminated paper timesheets, relieved student and staff from manual verification of payroll hours, and cut down payroll roster generation time from 16 hours to 2 hours. Integration with existing financial system cut down processing time from hours to minutes.

Payroll System:

- web-based front-end for 200+students
- online approval of valid shifts
- Access front-end for staff, MSSQL back-end
- integrate with budget allocations

IIS, ASP, ActivePerl, LDAP, MSSQL, MS Access, JavaScript

Financial System:

- secure web-server front-end
- compose and process requests online
- used by 500+ student organizations
- dynamic PDF report generation/emailing

IIS, ASP, MSSQL, JavaScript, Oracle DB

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INTERACTIVE PROJECTS Complete Portfolio: <http://chir.ag/projects>

ZetaBee.com ZetaBee is a collection of original apps developed using PHP, JavaScript, and HTML5 technologies:
 ■ *Email-to-Voice*: Calls your phone and reads out important emails automatically
 ■ *Text*: Organize your thoughts, plan complex things, make outlines easily
 ■ *Cash Flow*: Plan your future cash-flow and review your projected finances
 ■ *iCal JS Embed*: Embed upcoming events from Google Calendar & Facebook on your site

US Presidential Tag Cloud Interactive application that shows the popularity, frequency, and trends in the usages of words within speeches, official documents, declarations, and letters written by US Presidents.
Wall Street Journal interview: <http://online.wsj.com/article/SB116944313108983522.html>

Drop Search Library Drop Search makes it easy to add a powerful search box to any site; uses Google AJAX Search API.
Google interview: <http://googlecode.blogspot.com/2009/04/google-narratives-series-chirag-mehta.html>

Comp. Sci. Research: Footfall Synthesis Worked with Professor Dinesh Pai at Rutgers University on Real-time audio synthesis, paper titled "Real-time Synthesis of Footfall Sounds on Sand and Snow, and Wood."

Tip of My Tongue iPad & iPhone iOS app to help users instantly search for words in a dictionary by setting filters.

Plus Minus Google Chrome extension to improve usability of Google+ social networking service by enabling users to select which Circles show up in their Google+ Stream. Users can also mark individual or all posts as read and load more posts automatically by simply scrolling down.

PDFB Barcode Library PDFB enables PHP developers to generate PDFs with barcodes in 3 of 9, 128, 2/5, and UPC formats.

GeoIP Location A self-contained PHP file that lets developers determine the country of origin for any IP address.

Web Design KType.net, ZetaBee.com, Cakesy.com, FormulatedSolutions.com, UVASun.com, Chir.ag

PROFICIENCY MATRIX

Skill Level	Expert (4+ years)	Moderate (2-4 years)	Basic (1-2 years)
Automation & Programming	C/AL, PHP, ActionScript / Flex, JavaScript/jQuery	Java, C, VB.NET, ASP, Python, WMIC	C++, C#, CoffeeScript, LISP, Objective-C, Perl,, Scheme
Database	Dynamics NAV, MySQL, MS Access, Legacy Databases (dBase III+, FoxPro)	MSSQL, PostgreSQL, CouchDB, Amazon SimpleDB, MongoDB	Oracle DB, SAP, File Maker, IBM AS400/VSAM
Infrastructure & Servers	Active Directory, LDAP, Apache, VMware ESX	Citrix XenServer, Open-E SAN	WebSense, XioTech SAN, Spiceworks, BackupExec
Multimedia	Paint Shop Pro, Flash, Canvas / Processing.js	Dreamweaver, Photoshop, Audacity	Premiere, 3ds Max, AutoCAD, Blender
Tools & Technology	PDF automation, SOAP/REST APIs, Motorola scanners	Crystal Reports, VOIP/SIP Asterisk, Zebra XML printers	Cisco ASDM, OpenFire/Jabber, TrendNet IP CCTV