

# VINEY KHERA

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## Education:

### Master in Science in Computer Science

University of Southern California (U.S.C) – Viterbi School of Engineering, Los Angeles

May 2009

GPA: 3.38 / 4.0

**Relevant Coursework:** Web Technologies, Distributed Systems, Database Systems, Security Systems, Computer Networks, Operating System, Analysis of Algorithms, Artificial Intelligence

### Bachelor of Engineering in Electronics & Communications (Honors)

Career Institute of Technology & Management, India

May 2007

Aggregate: 72%

**Relevant Coursework:** Mobile Communication, Satellite Communication, Wireless Communication

## Technical Skills:

Programming Language:	C, C++, Java, Java RMI, Hibernate, Struts, .Net, C#, Perl
Web Technologies:	HTML, CSS, XML, Flex, DOM, JavaScript, JSON, JQuery, Ajax, Java Servlets, WSDL, Google Maps API's
Operating System:	Windows, Unix, Linux
Databases:	My-Sql, PostgreSQL
Protocols:	HTTP, TCP, UDP, BGP, FTP, IP, ARP, DNS, DHCP, SSH, RIP, OSPF, SOAP, SMTP, PIM-SM
Management Tools:	MS Office, MS PowerPoint, MS Visio, NetBeans, Microsoft Search server
Network Simulation Tools:	Opnet, Wireshark
Embedded Systems Tools:	Keil software, Flash Magic
Miscellaneous:	Dream weaver, Frame Maker, Microsoft Publisher, Apache server, Tomcat, Axis, Maya, Raintree Software, RaintreeSource Manager

## Relevant Work Experience:

### Raintree Systems, Temecula, CA

*Software Engineer*

July 2009 - Present

- Learnt Raintree's proprietary scripting language RSL based on Delphi and Raintree software.
- Wrote a Perl script to extract all the data from chemoregimen.com into an xml file that will be the base for a dosage calculator.
- Developed a RSL script for client Worksite Health to better coordinate between two databases and retrieve patient's information.
- Built a Raintree script for Multi faxing for client BMIT.
- Added Faxing and Emailing capability to the Batch Printing report generated by Raintree software.
- Developed a complete billing script in Raintree for client Goodwill Industries.
- Built an Audio routing script and template that can upload .wav files to Raintree software, it can also convert recorded .dss files generated after dictation to .wav files before uploading.
- Wrote a Perl script that will scan for patient information in the incoming email body or fax body and will place the documents attached in the email or fax automatically to that patient's record.
- Working on a transcription module in Raintree, to add a new dimension to Raintree Software.
- Wrote a Perl script to combine thousands of log files into a single file then moved it into a mysql table to query the logs easily.
- Also worked with number of clients like Dr Weiland, Integrity Rehab, Palmetto; to customize their applications and solved some of their technical issues with databases and scripts.

### CitizenHawk, Aliso Viejo, CA

*Software Intern*

June 2009

- Worked on Hawk Nest project that is private messaging system based on Perl and Java; involving ESB, Zimbra mail server on CentOS. I worked on Perl and PostgreSQL to download emails intelligently into the database.
- Researched over mail servers and ESB's; Worked on Zimbra mail server and configured it on company's mail server.

### IP Video Networks, San Diego

*System and Network Intern*

May-Aug 2008

- Completed Clear Path EMS Project and binded it with SNMPc Manager.
- Performed high definition video multicasting on Vx8000's using PIM-SM on Xorp and Cisco Routers.
- Made improvements and fixed crashing pages on company's website based on Cold Fusion.

### B.H.E.L., New Delhi, India

*Trainee*

Jun-Jul 2006

- Developed conceptual schema using Extended ER data model consisting of entities, subclasses, and relationships converted them in to Relational tables; capable of storing employee history.

### M.T.N.L., New Delhi, India

*Trainee*

Jun-Jul 2005

- Completed training involved the study of 5ESS and EWSD Switch Room.

## Other Work Experience:

- Shoah Foundation , Video Quality Analyst Aug 2008 – May 2009
  - Worked on digitizing video testimonies of the holocaust survivors and then ingesting them in SAN drives.
- CITM Career Planning Division, Coordinator, India. Aug 2006 – May 2007

## Independent Projects:

- Worked on a project to make a shopping cart website using PHP over LAMP environment. Apr 2009
- Made a Culinary Battle web page based on AJAX and JQuery, that compares restaurants based on location and food type. It uses Yelp API to get the rating information of Restaurants from Yelp website. Mar 2009
- Built my own RSS feed reader using *Perl* script. Mar 2009
- Wrote a *Perl* script that extracts IP addresses and Domain names from thousand files into a text file. Feb 2009
- Built a WordPress plug-in that turn all 'b' letters to red color in all posts using *PHP*. Jan 2009

## Academic Projects:

### Distributed Applications

Spring 2009

- Designed and Implemented a Web Services application between Bank and a Stock Broker using *Tomcat Axis* in *Java*.
- Built an ATM application using *Java RMI* capable of handling multiple concurrent requests.
- Designed and Implemented a multi player plane fighter game (Peer to Peer) application using Group communication in *C++ and Java*.
- Implemented an ATM application based on Multi-threaded stateful server handling number of client requests in *C++ and Java*.

### Web Technologies

Fall 2008

- Built a cross browser webpage, which fetches data from XML file using *Document Object Model*.
- Created a Tv shows listing web page by writing *server side Perl script* for fetching live contents from Yahoo website.
- Developed a Tv Listings Google Maps Mashup using *Java Servlets, Json, Ajax and Google Maps API's* in IE and Firefox.

### Operating systems

Spring 2008

- Built a synchronized, multi-threaded Passport Office in NACHOS and implemented System Calls and Multiprogramming.
- Implemented Virtual Memory and Basic Networking in NACHOS.

### Artificial Intelligence

Spring 2008

- Created an intelligent code breaking game (Cows & Bulls) in *Jess language*.
- Implemented A\* and IDA\* algorithm on different maps using *C++*.

### Computer Networks

Fall 2007

- Implemented a client-server application using TCP and UDP sockets to exchange messages on UNIX platform using *C++*.

### Database Systems

Fall 2007

- Designed a CIOM schema and database for the Bank and also Prepared test specification and queries using *My-Sql*.

### Research Paper on Security of Wireless Sensor Networks

Fall 2008

## Undergraduate Projects:

- Designed a Fool Proof communication system using Notch filter. Aug 2006-Apr 2007
- Made a line following Robot. Jun 2007