Manoj Dayaram

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Carnegie Mellon University
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Education

Carnegie Mellon University. Pittsburgh, PA
Computer Science Major – Class of 2010

Current GPA:
3.77/4.0

East Brunswick High School. East Brunswick, NJ
Class of 2006

Weighted GPA:
4.12/4.0

Relevant Curriculum

- 15-410 Operating System Design and Implementation
- 15-251 Great Theoretical Ideas in Computer Science
- 15-211 Fundamental Data Structures and Algorithms
- 15-529 Independent Study in HCI (Tablet Apps.)
- 15-213 Introduction to Computer Systems
- 70-643 Publishing in the World Wide Web

Work Experience

Carnegie Mellon University. Pittsburgh, PA.   *Aug – Dec 2007*
Teaching Assistant for 15-397 Pen Based Computing.
- Developed semester-long course content and assignments using C# for tablet applications.
- Provided feedback to students on ways to improve their code and structure.
- Met with students upon request in order to resolve their issues concerning their projects.

Carnegie Mellon University. Pittsburgh, PA.   *Aug – Dec 2007*
Teaching Assistant for 15-111 Intermediate/Advanced Programming.
- Instructed recitation classes on data structures and algorithms in Java.
- Graded student's assignments and offered comments to aid in their improvement.
- Offered individual aid to students during office hours on topics covered.

Tablet Math System – Pen Based Math Application. Pittsburgh, PA.   *June – Sept 2007*
Server Side Administrator.
- Improved and updated the system to meet new client demands.
- Worked with C# and ASP.NET to upgrade the system's server side application.
- Managed the database using SQL queries within C# and stored procedures.
- Facilitated the accessibility of the application, promoting education to children.

Phoenix F1 L.L.C. Computer Repair. East Brunswick, NJ.   *Aug 2005 – June 2006*
Co-Founder, Web Administrator, and On-Call Technician.
- Established company with three partners with a vision to provide affordable and reliable
  computer repair services.
- Designed web page and database using PHP and SQL to efficiently track client contacts.

Achievements & Projects

Independent Study in HCI – Graph Animator   *Jan – May 2007*
- Built a tablet application using C# and the Microsoft.Ink framework.
- Designed interface where user makes a graph by drawing circles to create nodes and lines
  connecting them to create edges. Edge weights can be assigned by writing the number on top of
  the desired edge.
- Graph algorithms can then be played back on the user's graph in the form of animation.
- For a full report, please visit: http://andrew.cmu.edu/user/mdayaram/hci/finalreport.html.

NJIT Programming Contest.   *March 2006*
- Represented East Brunswick High School and placed 3rd out of 70 other high schools in NJ.

Skills

Computer Languages: Strong experience with Java, C, C#, x86/IA32 and x86-64 assembly, HTML, CSS, and SQL.
Partial experience with C++, PHP, Perl, Ruby on Rails.

Foreign Languages: Fluent Spanish.