

Manoj Dayaram

mdayaram@andrew.cmu.edu

Carnegie Mellon University
5032 Forbes Ave – SMC 5101
Pittsburgh, PA 15289
(732) 343-3832

Education

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

Current GPA:
3.75/4.0

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
- 98-082 Web 2.0 Building Rich Internet Apps

Work Experience

Carnegie Mellon – Pen Based Computing (15-397)

Aug 2007 – Present

Position: Teaching Assistant.

- 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 – Intermediate/Advanced Programming (15-111)

Aug 2007 – Present

Position: Teaching Assistant.

- 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

Position: 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 Company. East Brunswick, NJ

Aug 2005 – June 2006

Position: 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.
- The user creates a graph by drawing circles to create nodes and lines connecting them to create edges. Edge weights can be assigned by simply 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 23, 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#, HTML, CSS, SQL, and ASP.NET.
Partial experience with C++, PHP, Perl, Ruby on Rails, .htaccess.

Foreign Languages: Fluent Spanish and basic ability in Japanese.