

Manoj Dayaram

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Carnegie Mellon University
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Education

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

Current GPA:
3.64/4.0

Relevant Curriculum

- 15-410 Operating System Design and Implementation
- 15-451 Algorithm Design and Analysis
- 21-301 Combinatorial Analysis
- 21-441 Number Theory
- 15-312 Foundations of Programming Languages
- 15-411 Compiler Design and Implementation
- 21-355 Principles of Real Analysis
- 21-600 Mathematical Logic

Work Experience

Mobile and Immersive Learning for Literacy in Emerging Economies. Pittsburgh, PA. *Mar – Present*
Position: Lead Programmer, Undergraduate Researcher.

- Developed cell-phone games to teach underprivileged kids in India the basics of English Literacy.
- Used J2ME to develop games in Java for the Nokia 3110c.
- Trained more than seven programmers in game programming concepts such as MVC, event driven programming, and game loop.

Carnegie Mellon University – System Skills in C (15-123). Pittsburgh, PA. *Aug – Dec 2008*
Position: Course Assistant.

- Instructed recitations on data structures, algorithms, and memory management in C.
- Held review sessions covering material to aid students on exams.

MITRE – E146 Group. Bedford, MA. *Jun – Aug 2008*
Position: Technical Co-op.

- Worked with Google Earth Plugin API and KML in order to integrate CoT messages.
- Helped develop an online portal system with a Java Servlet backend.
- Researched different Geocasting technologies.

Carnegie Mellon University – Pen Based Computing (15-397). Pittsburgh, PA. *Aug – Dec 2007*
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.

Carnegie Mellon University – Intermediate/Advanced Programming (15-111). Pittsburgh, PA. *Aug – Dec 2007*
Position: Course Assistant.

- Instructed recitation classes on data structures and algorithms in Java.
- Graded student's assignments and offered comments to aid in their improvement.
- Explained important concepts in linked lists, graphs, trees, hash maps and heaps.

Tablet Math System – Pen Based Math Application. Pittsburgh, PA. *Jun – Sept 2007*
Position: Server Side Administrator.

- 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.

Projects

Independent Study in HCI – Graph Animator *Jan – May 2007*

- Built a tablet application using C# and the Microsoft.Ink framework.
- Application is being presented in the 2009 WIPTE Conference.
- For a full report, please visit: <http://andrew.cmu.edu/user/mdayaram/hci/finalreport.html>.

Skills

Computer Languages: Strong experience with Java, C, SML/NJ, x86/IA32, x86-64.
Partial experience with C#, C++, HTML, CSS, SQL, Perl, Python.

Foreign Languages: Spanish.