

Abhay B. Joshi

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Overview

I am interested in teaching computer science concepts with a focus on program design and application of concepts to problem-solving. I have been teaching computer programming at upper elementary, middle, and high school levels since 2008. With the aid of my experience in the software industry, I feel I can make valuable contribution to education in computer science.

Teaching experience

- ▶ Since 2008, I have taught Scratch and Logo programming to 800+ students of 4th thru 8th grades, in Pune (India) and Redmond (WA).
- ▶ Conducted teacher training workshops:
 1. A 2-day teacher training workshop at Barshi (India) for 30 participants on Scratch Programming (2016).
 2. A one-day workshop at Sangli (India) for 30 participants on Logo Programming (2010).
- ▶ I have taught C programming to 10th grade students at Aksharnandan School in Pune, India.
- ▶ Mentored, coached, and trained numerous employees during my industry experience (see below).

Related activity

- ▶ Founded an informal forum of software professionals called SPARK Institute (spark-institute.com) where the focus was researching the field of “learning through programming” and designing teaching material.
- ▶ Co-authored and published a set of 2 books on “Logo Programming” for children. These are available in print format as well as on Amazon Kindle.
(Part1: <http://www.amazon.com/dp/B0096C3N4S>)
(Part2: <http://www.amazon.com/dp/B0099GYIM2>)

- ▶ Contributed a 2-page handout on the idea of “Learning through Programming” to the ScratchEd community:
scratched.media.mit.edu/resources/handout-learning-through-programming
- ▶ Presently creating an online course on Scratch Programming for a cloud-based learning platform.

Software industry experience

- ▶ Director at InPods – a company specializing in creating cloud-based tools for online learning management (2009 – to date).
- ▶ Co-founder and CEO of Disha Technologies – a company co-located in Bellevue USA and Pune India, which specialized in independent software testing for ISVs, which was later acquired in 2004 by Aztecsoft, a product engineering services company (1997-2008).
- ▶ Programmer at Motorola, Microsoft, and Palindrome: requirements analysis, software development, and testing. (1994-1996)
- ▶ Unix kernel/application development: enhancement of TCP/IP network protocols, and security product development at Interactive Systems (Santa Monica, CA) and Addamax Corporation (Champaign, IL) (1989-1993)

Academic record

- ▶ **Several online courses in CS / Programming** (2013 – to date)
- ▶ **Master of Science in Computer Engineering** (Dec 1988)
Syracuse University, Syracuse, NY 13244
- ▶ **Bachelor of Engineering in Instrumentation** (Jun 1984)
College of Engineering, University of Poona, Pune, India

Miscellaneous

- ▶ Languages: Scratch, Logo, C, Java, Python, C++, AppInventor
- ▶ Member of CSTA and ACM SIG-CSE.
- ▶ Other interests include music (playing violin and keyboard), writing (fiction and non-fiction), philosophy, and personal coaching.

Last updated: 27 February 2016