

Abhay B. Joshi

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Objective

I am interested in helping children and young adults learn computational thinking and CS concepts with a focus on how to design programs and apply CS concepts to solve problems in other disciplines.

Teaching experience

- ▶ Since 2008, I have taught Scratch, Snap, Python, Logo, Alice, and C programming to 1000+ students of 7th thru 12th grades, in Pune (India) and Redmond (WA).
- ▶ I have been working with TEALS (<https://www.tealsk12.org/>) since 2017 as a remote teacher for their "Intro to CS" course.
- ▶ I have conducted teacher training workshops for school teachers, NGO volunteers, and privately owned training companies.
- ▶ I have mentored, coached, and trained numerous employees during my software industry experience (see below).

Related activity

- ▶ Founded an informal forum of software professionals called SPARK Institute and Publications where the focus is designing teaching material and conducting classes. Through this forum, I have created two complete courses on "Computational Thinking with Scratch" for middle-school students.
- ▶ Authored and published several books on programming. They are available in print and digital format on Amazon:
 - Learn CS Concepts with Snap
 - Advanced Scratch Programming
 - Logo Programming
 - Pen Art in Scratch Programming
- ▶ Contributed two handouts to the ScratchEd community:
 - [Learning through Programming](#)
 - [Scratch – a perfect choice for middle school students](#)

Software industry experience

- ▶ On the advisory board of the following companies (2009 – to date):
 - InPods, Inc. – a company specializing in creating cloud-based tools for online learning management.
 - AFOUR Technologies – a company specializing in software development and reliability engineering services.
- ▶ 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, Snap, Logo, C, Java, Python, C++, AppInventor, R
- ▶ 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: 23 May 2019