

GRAHAM MITCHELL

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Full-time CS educator and developer transitioning to full-time backend development.

Technical Skills

Languages: Python, Bash, Java, JavaScript, HTML, CSS, Perl, C, C++, Ruby

Technologies and Skills: Linux, regex, automation, git, Apache (LAMP), nginx, SQL

Work Experience

Learn Java the Hard Way – company owner 2013 – present

- author of two self-published textbooks now used by a coding bootcamp and some high schools
- built product websites, developed custom back-end payment handling and product fulfillment code

The College Board/ETS – AP Reader for Computer Science exam 2010 – present

- chosen as one of only ~175 high school teachers (top 4%) worldwide to score the exam
- my “Don’t Be Creepy” talk was voted best presentation of “Pedagogical Practices Night”
- chosen for a focus group with 19 others to shape the new rubric for 2017-18

Leander High School – computer science teacher 1997 – present

- designed and developed curriculum and assignments now used by teachers throughout the US
- developed courses: Object-Oriented Java, Data Structures, Web Development, Video Game Design
- taught students C++, Java, Python, JavaScript, PHP, Scheme and x86 assembly
- developed a system to reduce grading time of CS assignments by 4x: Perl to tag and syntax-highlight student work, a single-page JavaScript app to streamline marking and Python to process the results
- developed website for improved monitoring of site-wide PSAT administration: JavaScript for timing in each testing room and a central Python server they all ping to report progress

Lakeline Church – worship leader (music director) 1997 – 2010

- managed a rotation of 15-20 musicians, recruited volunteers for the band
- helped grow the church from ~30 members to over 300 in the first three years

Publications and Invited Talks

Learn Object-Oriented Java the Hard Way (book) 2016

illustrates the object-oriented parts of Java using 50+ complete example programs

Learn Java the Hard Way (book with videos) 2013

demonstrates how to code with dozens of short, simple programs that build in complexity

Ways to Raise Your Social Status (talk) 2006 – 2015

Understanding the socially “typical” for an improved ability to navigate relationships, job interviews, and life in general. Sponsored by *Women in CS*. For UT College of Natural Science.

Why Are My Kids “Weird”? (talk) 2008, 2011

The impact of brain theory, social norms and autism on classroom behavior and how teachers can cope with them. For the Leander I.S.D. Continuous Improvement conference.

Education

The University of Texas at Austin 1997

Bachelor’s Degree, Computer Science