Kevin Workman

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By day I'm a software engineer at Google. By night I'm an adjunct professor at Millersville University. By later night I post tutorials to HappyCoding.io! I'm especially interested in the intersection of code, creativity, and education.

Education / Open Source Experience

Millersville University — *Adjunct Professor*

January 2022 - Present

- Currently teaching [Intro to Web Development](#).
- Developed a project-based curriculum focusing on creativity.
- Created videos and tutorials for students to work through asynchronously.
- Held weekly virtual classes where students share their work.

Google Software Product Sprint — *Curriculum Lead*

February 2017 - Present

- [SPS](#) (formerly CodeU) is a Google outreach program designed to encourage promising undergraduate students to (re)apply to Google. Students work in groups alongside a Google advisor over 8 weeks on a technical project.
- I wrote SPS's [technical curriculum](#), which uses project-based walkthroughs to guide students through creating a personally meaningful web app using Google Cloud libraries, with student engagement as the main goal.
- So far, over 2000 people have worked through the SPS curriculum.
- As a team advisor, I've directly mentored 35 students in 10 SPS sessions.

Happy Coding — *Nerd*

June 2016 - Present

- I post tutorials, examples, and other nerdiness at [HappyCoding.io](#).
- Content includes p5.js, Processing, Java (core and EE), JavaScript, HTML, Google Cloud, Android, and libGDX. (133 tutorials + 170 examples so far!)
- Used as the "textbook" for my Intro to Web Dev course and for University of Chicago's [CS 11111](#) course.

Processing / p5.js — *Open Source Contributor*

August 2011 - Present

- Currently the all-time top answerer of Stack Overflow questions tagged with the [processing](#), [p5.js](#), and [processing.js](#) tags.
- Taught sessions at [CC Fest](#) in SF and LA including the power and beauty of random, image processing, and [sp00ky halloween sketches](#).

Work Experience

Google, Mountain View California — *Software Engineer*

December 2016 – Present

- I'm currently a SWE on the engEDU platform team, developing the systems used for internal trainings, [CS First](#), and [Applied Digital Skills](#).
- Previously I was a tech lead for a team in [Google My Business](#), where I led several feature launches used by millions of users, e.g. attributes, descriptions, opening dates, place actions, and temporary closures.
- I've advocated for building the ownership and expertise of my peers, focusing on long-term velocity rather than short-term gain, improving our documentation, and caring more about user and operator happiness rather than shallow engagement metrics.

Get More Math, Remote — *Software Engineer*

January 2016 – November 2016 (Contractor)

- [Get More Math](#) is an educational software suite that gives students individualized math problems based on where they need the most practice.
- Developed new procedural generators based on teacher requests.

Vencore, McLean Virginia — *Software Engineer*

February 2009 – November 2016

- Worked as a contractor for the [Center for Advanced Aviation System Development](#), which is an FFRDC that develops prototypes for the FAA.
- Created frontends, "middle ends", and visualizations used by air traffic control prototype research.
- Development was very conversation-based. A researcher gets an idea for a new algorithm or display, and I rapidly develop a proof of concept and then we iterate together, aka [evolutionary prototyping](#).

Education

George Mason University, Virginia — *MS in Computer Science*

2011 – 2015

- Obtained a master's degree in Computer Science while working full time.
- Cool projects include: ant colony optimization, evolutionary mazes, predicting Ludum Dare scores, developing an AR Android game, and building an "artistic" drawing robot (full disclosure: it wasn't very artistic).

Millersville University, Pennsylvania — *BS in Computer Science*

2004 – 2008

- Helped create and implement a new undergraduate robotics course.
- Worked as tech support at the university's help desk, as an undergraduate researcher, and as the assistant system admin in the CS department.
- Other activities included tutoring, speaking at conferences, running CS camps, and way more independent studies than was strictly necessary.
- Interned at the [National Institute of Standards and Technology](#).

References

References are available upon request. 🐱