# Sophia van Valkenburg

*Artist / Software Engineer*

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## Fun Projects

**Halloween Haus** • A halloween-themed 2D sprite game. Pixel art & coding by me.
**Eyeball Forest** • A surreal interactive illustration. Artwork & coding by me.
**Music Doodles** • Experiments in music visualization.
**Animations on Vimeo** • Various animations I have worked on over the years.

## Tools & Software

Javascript • HTML/CSS • Python • Photoshop • Illustrator • After Effects • Animate • Unity

## Software Development Experience

**CBREBuild** • **Senior Software Developer** • **New York, NY** • **2017-2020**
○ I led feature development for multiple web-based projects at CBRE's real estate tech innovation lab, including an interactive 3D virtual real estate tour & a 2D floor plan design application. Technologies included front end web development, GPU programming, and experimental augmented reality.
○ Delivered tech talks on various subjects to enrich the knowledge of the team
○ Junior developer mentor

**The New York Times** • **Software Developer** • **New York, NY** • **2014-2017**
○ I architected a data pipeline to convert 160+ years worth (13 million) of archive articles from a legacy format to import into the CMS. See link to article below.
○ I led development on a backend API that served millions of website requests per day.

**dMetrics** • **Software Developer** • **Brooklyn, NY** • **2013-2014**
○ I expanded the prototype of our client-facing web app into a release-ready product.

## Articles & Talks

Building an AR Treasure Hunt
The Future of the Past: Modernizing The New York Times Archive
Intro to AR with Unity and Vuforia • Presented to the Women Who Code NYC chapter
How I Made Halloween Haus Minigame • Presented to the Hack && Tell meetup group
Virtual Fossil Fragmenter • Presented at the AMNH Hack the Deep Hackathon

## Education

**Illustration** • Fashion Institute of Technology • New York, NY • 2020-2021
**Animation Bootcamp Certificate** • School of Motion • Spring 2020
**Computer Science MS & BA** • Boston University • Boston, MA • 2009-2013
 *Honors: College Prize for Excellence in Computing, Summa Cum Laude, Phi Beta Kappa*
**Mandarin Chinese Language** • 10 years of study, including abroad in China for 1 year combined at China Institute, Beijing Language & Culture University, and Fudan University.