

# Sophia van Valkenburg

Software Engineer, Artist, Writer



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## Skills

React • Node • Javascript • HTML/CSS •  
Python • Technical Writing • Photoshop •  
Illustrator • After Effects

## Experience

### [SeatGeek](#) • Technical Writer • 2022-2024

- Produced a weekly internal newsletter with an audience of 500+ employees that distilled complex technical concepts into easily understood prose.
- Wrote 100+ articles over the course of 2 years, on average 1500+ words per week.
- Conducted hundreds of interviews with software engineers, managers, and directors across product and engineering.

### [CBREBuild](#) • Senior Software Developer • 2017-2020

- 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 and WebGL GPU programming.
- Built an AR web app for the 2018 NYCxDesign Festival. See link to article below.
- Delivered tech talks on various subjects to enrich the knowledge of the team

### [The New York Times](#) • Software Developer • 2014-2017

- Architected a data pipeline to convert 160+ years worth of archive data (13 million articles) from a legacy format to import into the CMS. See link to article below.
- Maintained and developed new features for a backend API that served millions of requests per day.

## Articles

[Building an AR Treasure Hunt with A-Frame and AR.js](#)

[The Future of the Past: Modernizing The New York Times Archive](#)

## Fun Projects

[Hiking Trails Tracker](#) • An interactive map of hiking trails with mileage stats, written in React/Typescript, with Python for data processing.

[Halloween Haus](#) • A halloween-themed 2D sprite game written in vanilla JS and jQuery. All art & coding by me.

[Eyeball Forest](#) • A surreal interactive illustration written in p5.js. All art & coding by me.

## Education

**Computer Science MS & BA** • Boston University

Honors: College Prize for Excellence in Computing, Summa Cum Laude, Phi Beta Kappa

**Fine Art & Illustration classes** • Art Students League of NY & Fashion Institute of Technology

**Mandarin Chinese Language** • 10 years of study, including abroad in China.