Sabrina Ketel, MS, PE

S O F T W A R E   E N G I N E E R

www.sk-se.com | software@sk-se.com

About

Innovative and resourceful engineer pivoting from structural to software, with 10+ years of expertise in design and management of complex projects. Excellent communicator and problem solver, with demonstrated success in providing engineering solutions that exceed client expectations.

Skills

- Programming Languages - JavaScript, Python, HTML, CSS, Matlab, EJS; familiarity with C++, Java, Elm
- Libraries & Frameworks - React, Express.js, Jest, Django, Bootstrap, Git
- Bilingual: English, Mandarin Chinese; familiarity with Spanish, German and French
- Able to quickly familiarize myself with new programs and systems
- Musician, producer and head of Feminist Synth Lab, a synthesizer lending library for marginalized folx

Research

Ketel, S.; Falzone, G.; Wang, B.; Washburn, N.; Sant, G. A printability index for linking slurry rheology to the geometrical attributes of 3D-printed components. *Cem. Concr. Compos.* 2018.

Education

THE ODIN PROJECT	(2022-2023)
Full Stack Web Development Bootcamp	
UCLA	(2016-2017)
M.S. Structural/Earthquake Engineering	
UCLA	(2010-2014)
B.S. Civil Engineering	

Experience

NDA (startup)   (DEC 2022)
INTERN (BACKEND)

- Conceptualization and initialization of backend data models for NFT community spaces platform
- Implementation of REST API for member and community models
- Development of unit tests for REST API

John A. Martin & Associates   (2019-2022)
SENIOR PROJECT ENGINEER

- Management of projects from schematic design through plan check approval and into construction
- Development and management of client relationships on behalf of the firm, leading to successful long-term partnerships
- Development of project proposals, including delineation of fee and scope of work
- Analysis and design of concrete, steel, masonry, and wood structures across business sectors (residential, educational, commercial)

DLR Group   (2013-2019)
STRUCTURAL DESIGNER

- Management of projects from schematic design through plan check approval and into construction
- Analysis and design of concrete, steel, masonry, and wood structures across business sectors (educational, hospitality, civic)
- Drafting and detailing of structural plans and 3D models in Revit and AutoCAD
- Led firm-wide BIM Forum to establish standard practices and workflows for structural discipline