

# Erik Ulberg

erikulberg.com • github.com/ulberge • ulberge@gmail.com • (206) 948-3348

## EDUCATION

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**Carnegie Mellon University**, School of Architecture, Pittsburgh, PA May 2020

Master of Science in Computational Design, GPA: 4.02

Thesis: “*Crafting the Weights of a Convolutional Neural Network to Make a Drawing*”

**Carleton College**, Northfield, MN June 2009

Bachelor of Arts in Computer Science, Honors: *magna cum laude*, Distinction in Major

## WORK EXPERIENCE

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**Archaeology of CAD Project**, School of Architecture, Carnegie Mellon University Pittsburgh, PA

*Graduate Research Assistant*

*Sept 2018-May 2019, Sept 2019-Current*

- Translate historical research papers into a ReactJS prototype of an early CAD system.
- Architect, implement, test, and document the use of the system as part of a research group.
- Lead a class workshop and mentor other students on developing CAD systems in JS.

**Human-Computer Interaction Institute**, Carnegie Mellon University Pittsburgh, PA

*Summer Research Assistant*

*May 2019-Aug 2019*

- Collaborated with researchers to build teacher movement charts using ReactJS, D3, and TensorFlow.
- Analyzed, cleaned, and processed data from a computer vision pipeline to make visualizations.
- Advised team and mentored junior colleagues on efficient data handling in web apps.

### Self-Employed

Seattle, WA

*Part-Time Freelance Web Developer*

*June 2014-May 2018*

- Designed, developed, and deployed WordPress and Shopify apps using JS, PHP, and SQL.
- Communicated closely with clients to understand and clarify requirements.
- Operated independently, refining full-stack skills across the front-end, back-end, and DevOps areas.

### Salesforce.com

San Francisco, CA and Seattle, WA

*Senior Member of Technical Staff (Seattle)*

*May 2013-Aug 2013*

*Member of Technical Staff (Seattle)*

*Sept 2011-May 2013*

*Associate Member of Technical Staff (San Francisco)*

*Aug 2009-Sept 2010*

- Built features in Java, JS, and SQL for a social collaboration tool for enterprise customers.
- Developed a responsive, performant, and cross-platform web UI as part of an Agile team.
- Produced automated UI and integration tests with Selenium.

## ADDITIONAL COURSEWORK

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**University of Washington**, Seattle, WA, 15 credits in Digital and Experimental Arts Summers 2016-2017

**Gage Academy of Art**, Seattle, WA, Magrath Sculpture Atelier

*Sept 2014-June 2016*

## SKILLS

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JS, Python, Java, PHP, SQL, CSS, ReactJS, TensorFlow, D3.js, p5.js, three.js, Git, AWS, Photoshop/Illustrator