# Joyce Y. Chen

Software Engineer, UI & UX Designer

MIT Graduate – Bachelor of Science in Computer Science & Engineering

• Cambridge, MA

chenjy@alum.mit.edu

**(**) joyceychen.com

#### Skills

### **Programming**

- Python
- C++
- Java
- Processing and p5.js
- Lua
- Git
- Halide

# Full Stack Web Development

Front-end

- React.js
- HTML/CSS
- JavaScript
- WordPress

#### Back-end

- Django
- MySQL
- Docker

# User Interface and User Experience

- User research
- Interaction design
- Usability testing

#### **Rapid Prototyping**

Software and physical prototyping in teams

# Design and Editing Software

- Adobe suite: Photoshop, Illustrator, InDesign, XD
- Figma
- Davinci Resolve
- AutoDesk AutoCAD
- Google SketchUp

## Interests

- Papercraft miniatures
- Origami
- Wiki editing

# Work Experience

2018 - **Independent Consultant**, *Software Developer* 

Present

- Working on an inventory calculator that can give recommendations
- Developed a website management suite for a wholesale company
- Created tools that: catch invoice duplicates (reducing mistakes by 81%), estimate pallet packing (reducing task time by 90%), and more

### MIT Media Lab Research, Programmer and UI & UX Designer

 Developed and deployed a lab-planning simulator for GlaxoSmithKline's site planners and architects

2017 – 2018

- Programmed the importer and renderer to take in raw floorplan files
- Adapted a pharmaceutical manufacturing simulation for web, programmed full functionality, and improved UI and graphics
- Designed posters for Media Lab's Members Week and the IEEE Future Technologies Conference, won Best Project Demonstration

# MIT Teaching Systems Lab Research (TSL), Graphic and UX Designer

• Designed graphics and tested the UI and UX of many learning experiences, challenges, and games for various teaching models

2016 – 2017

 Created a variety of brand identity graphics and marketing for TSL, their open-house, and their summer workshop

#### Education

## 2018 Massachusetts Institute of Technology (MIT)

Bachelor of Science in Computer Science & Engineering (6-3)

- **Technical Classes:** Software Construction; Algorithms; Computational Photography; Artificial Intelligence; Automata, Computability & Complexity; Machine Learning; etc.
- Design Classes: Intelligent Multimodal UI; UI Design & Implementation; Introduction to Design; Video Game Design; The Word Mad Digital, Exploratory Programming for the Arts and Humanities etc.

## Select Projects

2021 –	Google Form Response Data Aggregator   Python and Excel
Present	Working on a tool to aggregate submissions and flag conflicting results

2020 **Template-based Image Batch Processor** | Photoshop and JavaScript Made a tool to simplify exporting a batch of images with a PSD template

2018 **Action-Triggered Stage Control** | Kinect and Chrome Speech API Created a practice tool to help anyone learn lines and stage directions

2018 **Runstoppable** | React and Garmin watch Built a website for runners to track, compare, and analyze their run data