

Joyce Y. Chen

Software Engineer, UI & UX Designer

MIT Graduate – Bachelor of Science in Computer Science & Engineering

📍 Cambridge, MA

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Skills

Programming

Python, C++, Java, p5, Processing, Git, Halide

Web Development

HTML/CSS, JavaScript, React.js, WordPress

User Interface and User Experience

User research, interaction design, usability testing

Rapid Prototyping

Software and physical prototyping in teams

Graphic Design

Adobe Photoshop, Illustrator, InDesign

3D Design / CAD

AutoDesk, SketchUp

Illustration

Traditional drawing, Architectural drafting

Awards

Top Ten Finalist

MakeMIT 2015

Silver Key

Visual Arts

Scholastic Award 2013

First Place

Architecture

Florida State Fair 2011, 2012 & 2013

Miami-Dade Fair 2011, 2012 & 2013

Education

2014–18 Massachusetts Institute of Technology (MIT)

Computer Science & Engineering (6-3)

Design classes

- Introduction to Design
- UI Design & Implementation
- Intelligent Multimodal UI
- Video Game Design
- The Word Made Digital
- Exploratory Programming for the Arts and Humanities

Technical classes

- Software Construction
- Computational Photography
- Artificial Intelligence
- Algorithms
- Automata, Computability, & Complexity
- Machine Learning

Work Experience

2017–18 MIT Media Lab Research, Programmer and UI & UX Designer

- Designed, developed, and deployed a lab-planning simulator for GlaxoSmithKline's site planners and architects. Programmed the importer and renderer to take in raw floorplan files. Designed and implemented the graphical and tangible interfaces.
- 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.

2016–17 MIT Teaching Systems Lab Research, Graphic and UX Designer

- Designed graphics and tested the UI and UX of many learning experiences, challenges, and games for various teaching models.
- Created a variety of marketing and brand identity graphics for an open-house and summer workshop.

Projects

2018 Action-Triggered Stage Control

- Created a practice tool to help anyone learn a script and stage directions for a play with a Kinect and the Chrome Speech API.

2017 Runstoppable (runstoppable.io)

- Designed, prototyped, and implemented a website for runners to track, compare, and analyze all of their runs.

2013 Compact Water Filtration System – US Patent: 61/974,863

- Deployed a water filtration device in Kasai, Haiti, Nigeria, Argentina, and the Philippines to provide villages with clean water and prevent illness from contaminated water.
- Invited to be a keynote speaker at Conrad Awards: Spirit of Innovation, the USA Science & Engineering Festival, and the American Society of Plumbing Engineers Symposium.