

# JESSICA PENG

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## Education

**University of Pennsylvania**, School of Engineering & Applied Science | Philadelphia, PA  
Candidate for B.S.E. in Computer Science (Digital Media Design) - GPA: 3.20/4.00

May 2019

### Coursework

Programming Languages & Techniques, Data Structures & Algorithms, Computer Systems, JavaScript, Advanced Computer Graphics, Interactive Computer Graphics, Mathematical Foundations of Computer Science, Linear Algebra, Game Design Practicum

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## Experience

**The Daily Pennsylvanian | Philadelphia, PA**  
**Interactive Web Developer**

August 2017 - Present

- Develop dynamic and responsive webpages using HTML, CSS, and JavaScript for Penn's independent student media organization
- Build interactive projects that integrate computer graphics with the news including a game about Joe Biden and ice cream (ongoing)
- Perform research and development on the integration of 3-D/augmented reality visualizations in online news articles and graphics

**The New York Times | New York, NY**  
**VR/AR Intern**

June 2018 - August 2018

- Prototyped 3-D models and photogrammetry assets on iOS using Maya, SceneKit, ARKit, and Sketchfab to visualize AR moments
- Installed and tested volumetric video on the Microsoft Hololens to explore future mixed reality capabilities in immersive articles
- Researched, scripted, and developed a 3-D visual of a particle explosion for an upcoming article on a particle physics lab in Europe

**Molex, Inc. | Lisle, IL**  
**Product Management Intern**

May 2017 - August 2017

- Spearheaded the production of all 3-D graphics and marketing assets for a new line of power connectors
- Developed virtual/augmented reality visuals for web and mobile applications to drive the use of emerging technologies in marketing
- Photographed, edited, and tracked over 1,000 products for the global Molex web page saving the company over \$90,000 in costs

**University of Pennsylvania | Philadelphia, PA**  
**CIS 110 Teaching Assistant**

January 2017 - May 2017

- Held office hours for 4 hours per week for the Introduction to Programming in Java course
- Guided students in solving programming problems efficiently and learning basic concepts such as linked lists, recursion, and sorting
- Graded weekly homework assignments and exams

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## Skills

**Concepts:** Object-Oriented Programming, Functional Programming, Web Development, VR/AR Prototyping, Graphic Design

**Technologies & Applications:** SceneKit, ARKit, XCode, WebGL, OpenGL, Maya, Unity3D, Microsoft Visual Studio, Qt Creator, Mudbox, MotionBuilder, Illustrator, Photoshop, After Effects, Premiere Pro, KeyShotVR, Sketch, MapBox, ArcGIS

**Languages & Frameworks:** Java, C++, C#, HTML/CSS, JavaScript, Node.js, Angular, React, Bootstrap (*Familiar with:* C, Python)

**Version Control:** Git

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## Projects

**3-D Crossword | The New York Times**

July 2018

- Coded at The New York Times's Maker Week, a week-long company-wide hackathon, using HTML, CSS, JavaScript, and Three.js
- Presented to employees from various departments of the company on Demo Day including games engineers of the NYT Crossword

**Kessler Project | Walt Disney Imagineering Finalist**

January 2018

- Chosen as one of the top six teams from over 250 teams nationally to compete in the Walt Disney Imaginations Design Competition
- Presented to top-level executives for a week at the Walt Disney Imagineering Headquarters in Glendale, CA

**Law Offices of Margaret F. Sauser, LLC Web Page | Freelance**

January 2018 - May 2018

- Coded a personal web page for Margaret Sauser, a real estate attorney in Deerfield, Illinois, using HTML, CSS, and JavaScript
- Developed the business logo and all marketing collateral to establish and grow the law firm's presence online

**Dining Guide Fall 2017 | 34th Street Magazine**

October 2017

- Designed and developed the magazine's annual dining guide featuring editors' picks of restaurants around Philadelphia using HTML, CSS, JavaScript, Bootstrap, and the Rellax library

**Portfolio | Personal website**

February 2017

- Designed and developed an online portfolio to showcase work in both technical and visual projects using HTML, CSS, and Bootstrap

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## Activities

**Society of Women Engineers**  
**Technology Director**

January 2018 - Present

- Re-design the existing organization web page and coordinate hackathons and technology events with company representatives

**Corporate Dinner Committee Co-Director**

January 2017 - December 2017

- Coordinated SWE's largest networking event of the year comprised of over 150 attendees including students and representatives

Women in Computer Science    |    The Daily Pennsylvanian    |    Alpha Phi Sorority

**Hobbies & Interests:** U.S. Presidents trivia, dancing, painting, long-distance running