

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 II, Data Structures & Algorithms, Computer Systems, JavaScript, Data and Information Visualization, Advanced Computer Graphics, Interactive Computer Graphics, Mathematical Foundations of Computer Science

Experience

The Daily Pennsylvanian | Philadelphia, PA

August 2017 - Present

Interactive Web Developer

- Design and develop both front-end and back-end features of special projects pages for Penn's student news organization
- Build games and interactive applications as an extension of the Web Development Team, including a Joe Biden game (ongoing)
- Perform research and development on the integration of 3-D/augmented reality visualizations in news articles and graphics

The New York Times | New York, NY

June 2018 - August 2018

VR/AR Intern

- 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

May 2017 - August 2017

Product Management Intern

- 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

January 2017 - May 2017

CIS 110 Teaching Assistant

- 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

Skills

Concepts: Object-Oriented Programming, Functional Programming, Web Development, Game Development, VR/AR Prototyping

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

Languages: Java, C++, C#, HTML/CSS, JavaScript (*Familiar with:* C, jQuery)

Frameworks & IDE: Bootstrap, Three.js, Node.js

Version Control: Git

Projects

3-D Crossword (Team Project) | 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 (Team 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 Website | 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 2018 & 2017 Edition) | 34th Street Magazine

September 2018, 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

- Independently developed an online portfolio using HTML, CSS, JS, and Bootstrap to showcase technical and visual projects

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