JESSICA PENG

4006 Spruce St., Apt. 2, Philadelphia, PA 19104 ☐ (412) 807-0062 ∰jessicapeng.net /jess-peng Education University of Pennsylvania, School of Engineering & Applied Science | Philadelphia, PA Candidate for B.S.E. in Digital Media Design (Computer Science/Computer Graphics) - 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, Game Design Practicum Experience June 2018 - August 2018 The New York Times | New York, NY Graphics Intern (VR/AR) - Immersive Platforms Team, Graphics Desk · Prototyped 3D models and photogrammetry assets on iOS using Maya, SceneKit, ARKit, and Sketchfab to visualize AR moments • Researched and scripted a 3D visual of a particle explosion in Maya using JSON data for an upcoming article on a particle physics lab • Performed R&D on emerging platforms, including volumetric video for the Microsoft Hololens to explore future mixed reality capabilities in immersive articles August 2017 - Present The Daily Pennsylvanian | Philadelphia, PA Interactive Web Developer - Projects Department • Design and develop front-end and back-end features of special projects pages for Penn's independent student news organization • Build 2D browser games in JavaScript as a branch of the Web Development Team including a Joe Biden infinite runner game (ongoing) May 2017 - August 2017 Molex, Inc. | Lisle, IL Product Management Intern - Power Signal Business Unit • Spearheaded the production of all 2D/3D graphics and marketing assets for the FiT Families, 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 and graded assignments and exams 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 Skills Concepts: Object-Oriented Programming, Functional Programming, Web Development, Game Development, VR/AR Prototyping Technologies & Applications: WebGL, OpenGL, Unity 3D, 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, jQuery (Familiar with: C, Python) Frameworks & Tools: Bootstrap, Three.js, Node.js Version Control: Git **Projects** July 2018 3-D Crossword (Team Project) | The New York Times Maker Week • Designed and developed a browser-based crossword game in a 3D environment using HTML, CSS, JavaScript, and Three.js · User interacts with the crossword by zooming in/out, panning, and rotating it with a touchpad · Additional features include auto-complete with music, auto-highlight, inline clue rendering, locking the y-axis, and a timer 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 Created a holistic themed experience where visitors can travel to outer space and explore relics of space history and exploration Presented to managers and executives for a week at the Walt Disney Imagineering Headquarters in Glendale, CA Rendering Engine | Advanced Computer Graphics March 2018 · Built a rendering engine from scratch using C++, Qt, and OpenGL that supports naive, direct/indirect lighting, and photon mapping renders • Users can load customized OBJ files into the application and run the renderer Dining Guide (Fall 2017 & Fall 2018 Edition) | 34th Street Magazine October 2017, September 2018 Designed and developed the magazine's annual dining guide featuring editors' picks of restaurants around Philadelphia using HTML, CSS, JavaScript, Bootstrap, Mapbox, and the Rellax library **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

*Also a member of: Women in Computer Science, The Daily Pennsylvanian, and Alpha Phi

Hobbies & Interests: U.S. Presidents trivia, baking/decorating cakes, painting, long-distance running