

RICKY RAJANI

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EDUCATION

University of Pennsylvania expected May 2018
School of Engineering and Applied Sciences
Bachelor of Science in Engineering, Digital Media Design

Relevant Coursework: Data Structures and Algorithms, Introduction to Computer Graphics Techniques, Software Engineering, Programming Languages and Techniques I, Discrete Mathematics, Applications of Scientific Computation, 3D Modeling

EXPERIENCE

- The Wharton School – University of Pennsylvania, Teaching Assistant** January 2015 – Present
Gamification for Business (LGST 240)
- Assist in class simulations that demonstrate effective game design techniques
 - Update the course website with relevant assignments and posts
- GenHERation, Female Empowerment Network, Philadelphia, PA, Intern** October 2014 – Present
- Highlight human interest pieces that feature inspirational stories of girls and women from across the country
 - Wrote weekly articles for the Tech Talk column on emerging trends in technology
- Trove News (Washington Post Social Reader), Washington D.C., Front End Developer Intern** May – August 2015
- Used Pyramid Web Framework and Backbone.js to build out user interface of single page news discovery web application
 - Implemented the Karma testing framework using Jasmine and Sinon for Javascript unit testing
 - Worked with the Product and Backend teams to create a prototype for a newsletter feature
- First Bytes Computer Science Camp at the University of Texas at Austin, Assistant** June – July 2014
- Guided company representatives in holding over 15 workshops exposing 75 campers to technology and programming
 - Assisted in teaching C++ to campers

LEADERSHIP AND COMMUNITY OUTREACH

- Daily Pennsylvanian Innovation Lab**, Internal Consulting Board Member since 2016
- Receive a portion of the \$100,000 budget and institutional support to develop and execute innovation projects to bring the newspaper closer to its readers and generate new revenue streams
 - Streamline and optimize the newspaper's internal organization while gaining experience in management consulting
- Class Board 2018**, Engineering Class Chair & Webmaster since 2014
- Build and maintain the official Penn 18 website to keep the class updated on future events
 - Successfully hosted 5000-person post-football game concerts, study breaks, and community service events
- Smart Woman Securities**, Investment Board Member since 2015
- Review investment recommendations received by student-led Research Teams, discuss stock pitches, and help make decisions for the SWS Penn chapter's Investment Fund
- Women in Computer Science**, Mentoring Committee Board Member since 2016

PROJECTS

- Mini Minecraft 2016 – C++, OpenGL, GLSL**
- Class project implementing many computer graphics principles: procedural graphics (perlin noise function and L-systems), raymarching, octree acceleration, animation, texture mapping
- PennChats PennApps Hackathon 2016 – HTML, CSS, Javascript, Bootstrap**
- Designed and implemented an exclusive, online chatting service for Penn students to interact with classmates during class
- Embedded Media (Second Place Award) Trove News Company Hackathon 2015 – Coffeescript, Python**
- Worked with the Backend team to integrate NPR podcasts and YouTube videos into the web interface
- Map the Change (Second Place Award) Hack the Change Hackathon 2014 - HTML, CSS, Bootstrap**
- Developed a web application to assist Peace Corps volunteers in keeping track of their contributions to OpenStreetMap

TECHNICAL SKILLS

- Proficient:** Java, C++, HTML, CSS and Adobe Photoshop
- Familiar:** C, Python, Javascript, Coffeescript, Bootstrap, MATLAB, Autodesk Maya and Adobe Illustrator