Alena Borisenko

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EDUCATION

Tufts University, Medford, MA

Master of Science in Computer Science, expected May 2018

Bachelor of Science in Computer Science, May 2016
Minor: Japanese Language

Kansai Gaidai Asian Studies Program, Hirakata-shi, Japan, Fall 2014

SKILLS

Programming: C, C++, CSS, HTML, JavaScript, LabView, Python
Platforms/Tools: Android Studio, Arduino, D3.js, Flask, Git, Maya, Unity
Languages: Russian (native tongue), Japanese (advanced)

COURSES & PROJECTS

Relevant Courses: Algorithms, Artificial Intelligence, Computation Theory, Data Structures, Databases, Human-Computer Interaction, Natural Language Processing, Visualization

Twitter Kanji Evaluator, Fall 2017
- Accessed the Twitter API via Tweepy to gather tweets by popular Japanese accounts
- Extracted kanji from tweets using regular expressions and evaluated their difficulty
- Utilized Flask to create a demo webpage for presenting popular Twitter users' kanji use statistics

Social Graffiti, Fall 2016
- Developed a location-based announcement board application for Android
- Integrated Firebase backend and Google Maps API into the application

BrewViz, Fall 2016
- Built an exploratory visualization of craft beer categories, flavor profiles and food pairings
- Collaborated with team members to create a webpage showcasing SVG visualizations

L-U-G-E, Fall 2015
- Developed an obstacle course iPhone game in Unity along with two other teammates
- Created 3D character and obstacle models in Maya

Last Contact, Fall 2015
- Developed a platformer game in Phaser along with two other teammates
- Created custom sprites and maps

EXPERIENCE

Tufts Human-Computer Interaction Lab, Medford, MA
Research Assistant, June 2017 – Present
- Conduct user study sessions and contribute to the methods section of an HCI research paper
- Perform set-up of data acquisition hardware and control software
- Programmed a customizable "Memory" game and automated logging for use in experiments

Tufts Academic Resource Center, Medford, MA
Japanese Language Tutor, Sept. 2015 – May 2016
- Planned and conducted one-on-one tutoring sessions with Tufts students
- Clarified difficult grammar rules, created practice problems tackling common mistakes
- Encouraged students to practice speaking and developed general study strategies

Beth Israel Deaconess Medical Center for Advanced Biomedical Imaging and Photonics, Boston, MA
Intern, July – Dec. 2015
- Developed control, automated calibration and logging programs for a novel spectroscopic optical coherence tomography diagnostic system
- Collaborated with a team of researches and designed an intuitive UI based on their specifications