

Laura Ragone

Brooklyn, NY

E-Mail: laura@lauragone.nyc

Education

New York University

B.S. in Computer Science
Minor in Animal Studies

Fall 2009 – Spring 2014

Stevens Institute of Technology

B.E. in Mechanical Engineering
Concentration in Robotics & Automation

Fall 2009 – Spring 2014

Projects

OnTrac – Whereable Transit

Using Django, modeled a rich-featured, RESTful API to retrieve GTFS data feeds for MTA NYCT. Constructed Pebble watch app and companion iOS app to relay relevant real-time and scheduled train arrival information via location services and geo-fencing.

Algorithmic Problem Solving for ACM Coding Competitions

Using Java, developed 80+ solutions for ACM questions requiring the implementation of Dynamic Programming, graph analysis, computational geometry, String processing, and sorting algorithms for large data sets. Emphasis placed on runtime efficiency.

Weather Bird for iOS

Using Swift, constructed a context-aware side-scrolling game in the style of FlappyBird. The SpriteKit framework was employed in conjunction with local weather forecasts and sun time information from OpenWeatherMap to evoke user immersion in gameplay.

Mobile Robot Navigation, Localization, and Mapping

Using MATLAB, implemented image processing and vision-based navigation software; enabled a TurtleBot to autonomously locate a randomly placed object while simultaneously localizing itself and mapping its absolute position from an unknown starting place.

bitBytes for iOS

Using Objective-C, built a concentration-based puzzle game, spanning 16 unique levels, based on Cocos2D and XML frameworks.

Experience

Lab Assistant at NYU Law ITS

Winter 2014 – Summer 2014

Serviced printer hardware, monitored printer optimization software (Pharos), and allocated printing supplies within a high-volume computer lab. Supported and maintained laboratory machines running both Windows and Mac operating systems by performing regular software and registry updates. Assisted lab patrons with technical questions concerning general IT and facility capabilities.

Skills

Proficient in Java, Obj-C, C/++, and MATLAB. Experience with Swift, Python, JavaScript, HTML, CSS, BASIC, Mathematica, and x86 Assembly.