

EDUCATION

Duke University, Durham, NC

Bachelor of Science, Computer Science • Minor, Statistical Science

May 2018

Dean's List with Distinction • GPA: 3.7 / 4.0

TECHNICAL SKILLS

Languages: Java, JavaScript, HTML, CSS/SASS, Python, Ruby, C, C++, R, Stata, SQL, Racket (Lisp), MIPS, LaTeX

Frameworks: Ember.js, Ruby on Rails, JavaFX, jQuery, Play, Git, Heroku, WordPress, Drupal, LaTeX, VMware, Ubuntu, Photoshop

Skills: Web development and hosting, agile development, technical and IT support, test-driven development, Spanish

WORK EXPERIENCE

Esri R&D Center, Washington, D.C.

Software Development Intern, May 2017 – Aug 2017

- Developed features for ArcGIS Hub, an Ember application that provides a platform for connecting government and citizens through open data
- Prototyped an application for templating ArcGIS Online mapping applications to render them compatible with any dataset hosted by Esri

Department of Computer Science, Duke University, Durham, NC

Teaching Assistant, Jan 2017 – present

- Taught Software Design & Implementation (CompSci 308) and Web Development (CompSci 290) under Prof. Robert C. Duvall, and Operating Systems (CompSci 310) under Prof. Landon P. Cox
- Assisted the professor in designing the pilot curriculum for CompSci 290, which ultimately focused on JavaScript and Rails

inspectX, Durham, NC

Software Developer, Oct 2016 – Feb 2017

- Served as a full-stack web developer for a startup platform built with Rails that connects prospective car owners with local mechanics to provide economical, onsite pre-purchase inspections
- Resolved existing back end issues with authentication, form submission, payment, and database management

Centro Integral de Equinoterapia, Guayaquil, Ecuador

Research Volunteer, June 2016 – Aug 2016

- Built a static, mobile-optimized website to increase the center's community outreach and public exposure
 - Created with Drupal and heavily customized with HTML, CSS, and JavaScript/jQuery
- Researched the efficacy of animal therapy applications to special needs treatment

Duke University Medical Education IT, Durham, NC

Work-Study Assistant, Oct 2015 – present

- Provided hardware and software technical support to medical school faculty and students
- Redesigned a WordPress-based website used for informational purposes, asset deployment, and ticket service requests

Duke-UNC Brain Imaging and Analysis Center, Durham, NC

Work-Study Researcher, Aug 2014 – May 2015

- Analyzed fMRI and survey data to research PTSD and TBI incidence in patients of the Durham VA Medical Center
- Interviewed veterans regarding their experiences with traumatic episodes and PTSD

PROJECT EXPERIENCE

ArcGIS Hub

May 2017 – Aug 2017

- An Ember application built on the ArcGIS Online API with a development team of approximately 20 engineers

Hubattoir / Initiative Editor

July 2017 – Aug 2017

- A prototype application built with Ember on the ArcGIS Online API to support ArcGIS Hub

Pokémon Duke Blue

Sept 2016

- A role-playing videogame built with JavaFX and based off of the Pokémon videogame series
- Features a navigable world, interactive non-player characters, turn-style Pokémon battles, cheat codes, and sound effects

VOOGA (Video Object-Oriented Gaming Architecture)

Nov 2016 – Dec 2016

- A game authoring engine specialized for building 2D role-playing games such as Pokémon, Zelda, or Dragon Quest
- Features customizable block-based game building, integrated game testing, and game file I/O; built with Java and JavaFX

LEADERSHIP EXPERIENCE

Duke International Relations Association, Durham, NC

Feb 2014 – present

- Directing Duke's 2018 international high school Model United Nations competition, DUMUNC XXXVI, serving as the conference director (Secretary-General) and managing a staff of approximately 100 people

ACTIVITIES AND SOCIETIES

- Member, Duke Association for Computing Machinery
- Judge, HackDuke