

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, Swift, C, C++, R, Stata, SQL, Racket (Lisp), MIPS

Frameworks: Ember.js, Ruby on Rails, iOS, Android, JavaFX, jQuery, Play, Linux, Git, Heroku, WordPress, Drupal, LaTeX, 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, initiatives, and community engagement
 - Resolved issues with authentication gating, mobile optimization, and interaction with the ArcGIS Online API
- Prototyped and built an application for templating ArcGIS Online mapping applications to render them compatible with any Esri hosted dataset
 - Reduced the time necessary to template new datasets for ArcGIS Hub by 80%+

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
- Assisted Prof. Duvall 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

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 30 engineers

Hubattoir / Initiative Editor

July 2017 – Aug 2017

- An Ember application built on the ArcGIS Online API to support geospatial dataset templating for 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