

## EDUCATION

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**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

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**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

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**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 mapping applications for ArcGIS Hub by over 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

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**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

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**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

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