Ivan Echevarria

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**Education**

College of William & Mary, Williamsburg, VA anticipated graduation May 2018

*B.S. Computer Science* GPA 3.83

*B.S. Applied Mathematics, Probability & Statistics concentration*

Dean’s List Fall 2014 – present

James Monroe Scholar August 2014 – present

**Skills, Qualifications, Courses**

*Languages*: Python, C/C++, Java, SQL, R  
*Tools and Software*: Git, Maya, Lightroom, Photoshop, InDesign, ArcMap, Office Suite

*Web:* HTML5, CSS3

*Relevant Courses*: Data Analysis (R), Big Data Analytics (R), Probability (R), Software Engineering (C++, Java), Game Design (C++), Software Development (Java), Algorithms (C++), Program Languages (C, C++, Python),

Data Structures (Python), Remote Sensing (ArcMap), Applied Statistics

*Areas of Expertise*: software engineering, data analysis, machine learning, technical writing, imaging, presentations

**Internships**

**CarMax, Richmond, VA**

*Strategy Analyst Intern* June 2017 – August 2017

▪ Developed new methods to reduce pricing error with a projected value of $6M-$12M per year

▪ Identified new source of pricing error by leveraging third-party data and analyzing 300M+ records

▪ Built visualizations to demonstrate trends; findings were deemed significant enough to change team priorities

▪ Technologies: Python (pandas, scikit-learn, matplotlib), SQL

**AidData, Williamsburg, VA**

*Research Associate* May 2016 – August 2016

▪ Saved organization $150K+ by developing tools to automate processing on 2M+ documents

▪ Improved web scraper to collect AidData-relevant articles 5x faster

▪ Wrote documentation for newly-developed internal tools; expanded existing documentation

▪ Technologies: Python (pandas, scikit-learn), R, Selenium

**William and Mary Department of Mathematics, Williamsburg, VA**

*Research Assistant* June 2015 – July 2015

▪ Used machine learning to classify 80 GB of images of eyes as healthy or sick

▪ Presented findings at a program-wide meeting; made visualizations and built the slide deck

▪ Continue to work to improve methods during following semesters on a part-time basis

▪ Technologies: Python (scikit-image, OpenCV), MATLAB, R

**Etc.**

**William & Mary Photography Program** – *Lab Assistant, Student* August 2016 – present

▪ Achieve 2M+ views of photographs online; have work featured in print and online publications

▪ Granted funding from the Roy R. Charles Center for Academic Excellence to complete film photography project

▪ Assist with creating hundreds of platinum-palladium prints

**Students for University Advancement** – *Member* August 2016 – present

▪ Represent W&M students and interact with alumni at university advancement events

▪ Invited by Mike Tierney, director of the Institute for Theory and Practice of International Relations

**Pi Mu Epsilon (Math Honor Society)** – *Member* July 2015 – present

▪ Presented on practical machine learning applications