Ivan Echevarria

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— Education

William & Mary — expected graduation May 2018
Major: Computer Science — GPA 3.84
Minor: Applied Mathematics

Dean's List — Fall 2014 – present
James Monroe Scholar — August 2014 – present
Awarded to top 10% of William & Mary students

— Skills & Coursework

Languages:	Python, JavaScript, C++, C, HTML/CSS, SQL, Java, R
Libraries:	pandas, scikit-learn, matplotlib, SFML, OpenCV, scikit-image
Tools and Software:	Git, Linux, LaTeX, ArcMap, Maya, Adobe CC Photo, Capture One
Relevant Courses:	Data Analysis (R), Big Data Analytics (R), Probability (R), Software Engineering (Java), Game Design (C++), Software Development (Java), Algorithms (C++), Program Languages (C++), Computer Graphics (C++), Remote Sensing (ArcMap), Applied Statistics, Linear Algebra
Areas of Expertise:	data science, software engineering, machine learning, data visualization, technical writing, imaging

— Work Experience

CarMax
Strategy Analyst Intern — June 2017 – August 2017

- Discovered and executed on a $6 million - $12 million opportunity for better pricing by developing a machine learning solution that leveraged third-party data to reduce error in car prices
- Collaborated with three pricing analysts to validate solution; findings deemed sound enough to move to production
- Analyzed 300 million records and determined that specific inventory segments were systematically underpriced
- Designed visualizations, wrote Jupyter notebooks, and built slide decks to communicate findings to management and analysts
- Technologies: Python (pandas, scikit-learn, matplotlib), SQL, MongoDB

AidData
Data Research Associate — April 2016 – August 2016

- Saved organization $150,000+ by automating preliminary analysis on more than 2 million documents
- Collected AidData-relevant articles 5x faster by rewriting a preexisting web scraper and optimizing external API requests
- Wrote documentation for newly-developed tools and improved documentation on existing software
- Technologies: Python (pandas, scikit-learn), R, Selenium, JavaScript

William and Mary Department of Mathematics
Research Assistant — June 2015 – July 2015

- Used machine learning and image processing to classify 80 GB of images of retinas as healthy or sick under Dr. Daniel Vasiliu
- Accelerated image processing 20x by writing scripts to run on SciClone, William & Mary's supercomputer cluster
- Presented findings at a program-wide meeting; designed visualizations and built slide deck
- Technologies: Python (scikit-image, OpenCV, matplotlib), MATLAB, R, Bash

— Extracurriculars

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

- Achieved more than 2 million views of photographs on Flickr; 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 for Eliot Dudik's monograph *COUNTRY MADE OF DIRT*

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

- Presented on practical machine learning applications