

Ivan Echevarria

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— Education —

The College of William & Mary
Major: Computer Science
Minor: Applied Mathematics

expected graduation May 2018
GPA 3.84

Dean's List
James Monroe Scholar
Awarded to top 10% of William & Mary students

Fall 2014 – present
August 2014 – present

— 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](https://www.flickr.com/photos/iechevarria/); 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