Ivan Echevarria

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— Education & Awards —

William & Mary	Graduated May 2018

Major: Computer Science
Minor: Applied Mathematics — GPA 3.85

Phi Beta Kappa:	*Awarded to top 7% of graduating seniors*	Spring 2018
Bob & Debbie Noonan Award:	*Awarded to 2 seniors for excellence in interdisciplinary CS applications*	Spring 2018
2nd Place at HackU6:	*$5000 prize awarded by Dominion Enterprises at their annual hackathon*	Spring 2018
James Monroe Scholar:	*Awarded to top 10% of incoming freshmen*	August 2014

— Skills & Coursework —

Languages:	Python, Go, JavaScript, HTML/CSS, C++, Java, SQL
Tools & Software:	Git, Linux, Android, LaTeX, Google Analytics
Relevant Coursework:	Software Engineering (Java), Computer Graphics (C++), Algorithms (C++), Game Design (C++), Computer Organization (C), Data Structures (Python), Data Analysis (R), Probability (R)

— Experience —

CarMax – *Strategy Analyst Intern* — June 2017 – August 2017

- Boosted CarMax's profit by an estimated $6 million - 12 million per year by combining disparate data sources and developing a machine learning solution to reduce error in car prices
- Collaborated with three senior pricing analysts to validate solution; findings deemed sound enough to move to production
- Technologies: Python (pandas, scikit-learn, matplotlib), SQL, MongoDB

AidData – *Data Research Associate* — April 2016 – August 2016

- Saved AidData $150,000+ by automating preliminary analysis on more than 2 million documents
- Collected relevant articles 5x faster by rewriting a preexisting web scraper and optimizing external API requests
- 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 disease progression in 80 GB of images of retinas
- Accelerated image processing 20x by rewriting scripts to run on SciClone, William & Mary's supercomputer cluster
- Technologies: Python (scikit-image, OpenCV, matplotlib), MATLAB, R, Bash

— Selected Projects (more at echevarria.io) —

Reply Only – *collaborative photo sharing platform* — Summer 2018 – Present

- Validated idea for the product by researching competition and talking to photography students and faculty at William & Mary
- Built and tested RESTful API with user authentication and search using Go and MySQL; composed frontend with Vue.js

Ray Tracer JS – *3D ray tracer renderer* — Spring 2018

- Built a 3D ray tracer renderer with shadows, reflection, custom materials, and custom lights using JavaScript, HTML/CSS
- Wrote and tested core classes for vector math operations; implemented optional supersampling for superior render quality

— Extracurriculars —

William & Mary Photography Program – *Lab Assistant, Student* — August 2016 – May 2018

- Work featured by SUBJECTIVELY OBJECTIVE, Float Photo Magazine, PDN Edu, and other publications
- Granted funding by William & Mary complete medium format film photography project
- Assist with creating hundreds of platinum-palladium prints for artist Eliot Dudik's monograph *COUNTRY MADE OF DIRT*