

Ivan Echevarria

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— Education & Honors —

William & Mary		August 2014 – May 2018
Major: Computer Science		GPA 3.85
Minor: Applied Mathematics		
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
James Monroe Scholar	Awarded to top 10% of incoming freshmen	August 2014

— Skills & Coursework —

Languages	Python, Go, JavaScript, HTML/CSS, C, C++, Java, SQL
Tools & Software	Git, AWS, GCP, Linux, 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 —

Stealth Mode Startup – Data Scientist September 2018 – present

- Create production machine learning models; design and build data science pipelines and infrastructure
- Technologies: Python, Node, AWS, PostgreSQL, Docker

CarMax – Business Analyst Intern, Pricing 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 – Research Assistant, Data Team 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 ([link](#)) Summer 2018 – Present

- Validated idea by researching competition and interviewing photography students and faculty at William & Mary
- Built and tested RESTful API using Go and MySQL; composed frontend with Vue.js; deployed to AWS

Ray Tracer JS – 3D ray tracer renderer ([link](#)) 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 color and vector math; implemented optional supersampling for superior render quality