

# Ivan Echevarria

ivan@echevarria.io  
<https://echevarria.io>  
(628) 400 5713

---

## — 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, Node.js/JavaScript, Go, 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

- Build core machine learning models and production data infrastructure
- Make bad puns and have a whole lot of fun (we're hiring)
- Stack: Python, Node.js, AWS, PostgreSQL

**CarMax – Business Analyst Intern, Pricing** June 2017 – August 2017

- Boosted CarMax's profit by an estimated \$6 million - 12 million per year by using machine learning to set better car prices
- Analyzed and leveraged external data to identify opportunities for improvement in core pricing models
- Stack: Python, SQL, MongoDB

**AidData – Research Assistant, Data Team** April 2016 – August 2016

- Saved \$150,000+ by automating preliminary analysis on more than 2 million documents
- Collected articles relevant to AidData 5x faster by optimizing existing services
- Stack: Python, JavaScript, R

**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, MATLAB, R, Bash

---

## — Selected Projects (more at [echevarria.io](https://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 GCP

**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