Isabella Sims

Washington, D.C. | 804-306-0857 | [isabellaksims@gmail.com](mailto:isabellaksims@gmail.com) | [linkedin.com/in/isabellasims/](https://www.linkedin.com/in/isabellasims/) | [github.com/isabellasims](https://github.com/isabellasims)

# EDUCATION

**American University – College of Arts & Sciences** Washington, D.C. **Bachelor of Science in Computer Science with a Concentration in Software Engineering** May 2021 GPA: 3.65

Relevant Courses: Software Engineering (Grad level), Programming Languages (Grad level), Algorithms and Data Structures, Intro to Info Visualization, Design and Organization of Programming Languages, Database Management Systems, Operating Systems, Artificial Intelligence (Grad level), Creative Coding (p5.js), Computer Science I (Python), Computer Science II (Java), Computer Networks, Applied Calculus, Basic Statistics, Computer Systems Organization, Discrete Structures, Visual Communication Design, Algorithms and Data Structures, Computation of Visual Functions

# EXPERIENCE

**American University** Washington, D.C.

**Teaching Assistant** September 2020 – December 2020

* Teaching assistant to Professor Alex Godwin for the CSC-450/650 (Software Engineering)
* Assisted Professor with grading assignments, held weekly office hours, primary resource for students

**American University** Washington, D.C.

**Quantitative Academic Support Tutor** September 2019 – Present

* Creative Coding (JavaScript); Intro to Computer Science I (Python); Intro to Computer Science II (Java); Algorithms and Data Structures; Design and Organization of Programming Languages

**The Giving Block** Washington, D.C.

**Software Engineer & Graphic Designer** May 2019 – Present

* Establish, navigate, and query blockchain server to claim crypto donations, swap between different types of cryptocurrencies, and distribute them as rewards to various NPOs
* Entrusted with management of private key in addition to thousands of dollars in cryptocurrency
* Created web scraper to consolidate every mention of company via twitter and the open web
* Effectively communicate technical aspects to prospective clients that lacked technical knowledge
* Published Graphics: [Bitcoin Infographic,](https://www.linkedin.com/feed/update/urn:li:activity:6559832928573018112/) [Crypto Piggy Bank](https://blog.charitynavigator.org/2019/07/does-your-nonprofit-accept-bitcoin-yet.html)

**American University** Washington, D.C.

**Print Center Assistant** August 2017 - December 2019

* Offered IT support for hundreds of students and staff every week and assisted patrons with software issues
* Troubleshot multiple University Printers at a time

# ACTIVITIES AND INVOLVEMENT

**Research Assistant – American University Computer Science Departmenst** August 2020 –Present

* Working with Professor Arthur Shapiro to create a medical tool for our clients (ophthalmologists at Johns Hopkins University)

**Research Assistant - American University Computer Science Department** April 2019 – Present

* Created visual illusions using JavaScript (heavy emphasis on p5.js and Qualtrics) to create a web app in order to log user responses to changing state and perform quantitative psychometrics

**Research Assistant - American University Computer Science Department** September 2019 - December 2019

* Performed geospatial analysis with D3.js, leaflet, and turf.js to create an interactive map as a tool to report domestic violence in the DC area

[**Software Blog**](https://software-and-stuff.medium.com/)

**SKILLS:** Python, JavaScript, Git, Data Visualization and Virtual Maps (D3.js, p5.js, Leaflet, Turf.js), Data Analysis, Research, Blockchain, Web Development, Adobe Apps (Illustrator, Photoshop, Lightroom), Photography, Scrum Project Management, Qualtrics, Amazon Mechanical Turk, IRB Certified, Outgoing

**INTERESTS:** Cognitive Psychology, Creative Coding, Psychometrics, Hiking, Interactive Data Visualization and Maps, Travel, Guitar