Gregory Schare

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EDUCATION

Columbia University, New York, NY — September 2019 – May 2024 (projected)

Major: B.A. Computer Science & Mathematics
Coursework: Honors Mathematics, Data Structures in Java, Principles of Economics
Current GPA: 3.56

Viewpoint School, Calabasas, CA — September 2015 – June 2019

Honors: Cum Laude Society, AP Scholar with Distinction, National Merit Commended Scholar
Coursework: Intermediate Programming, Artificial Intelligence Honors, AP Physics C
Cumulative GPA: 4.70/4.00

WORK EXPERIENCE

Assistant Programmer — June 2020 – present
Making and Knowing Project, Columbia University, New York, NY

* Develop user-friendly, interactive textual analysis tools in Python designed to foster collaboration among researchers across disciplines
* Develop the Python backend of the digital critical edition of BnF Ms 640, a manuscript undergoing active editorial work
* Design, streamline, and maintain public-facing archives for laboratory reports, essays, and GitHub history

Lead Instructor — July 2020 – present
CodeAdvantage LLC, New York, NY

* Teach introductory Python programming and game development to middle school students
* Develop dynamic curriculum according to student ability and interest
* Manage a virtual classroom and encourage frequent student participation

Research Intern — June 2019 – August 2019
Laboratory for Physical Sciences, University of Maryland, College Park, MD

* Assisted in ongoing quantum computing research under the supervision of Dr. Bruce Kane
* Developed Python software to analyze electron beam scattering trajectories in solids
* Built apparatus for measuring aqueous solution concentration using low-power lasers to streamline colleague's experiment

SKILLS

Programming languages: Python, Haskell, C, Racket/Scheme, Javascript, Java

Software & Tools: AWS, Node.js, React, Next.js, Jekyll, SQL, Processing, Photoshop

VOLUNTEERING

Database & Frontend Programmer, *Gallformers*
Develop open-source site (next.js, React, sqlite) for identifying and learning about plant galls.

Instructor, *Mastery Learning Hour*
Tutor K-12 students in mathematics with a drop-in session format.

Webmaster, *Columbia Space Initiative*
Run statically-generated (Jekyll) club website at columbiaspace.org.

Treasurer, *Columbia Platypus*
Manage club finances and guest speaker honorariums. Lead weekly reading group.