

Vishrut Tiwari

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EDUCATION

Columbia University

Candidate for Bachelor of Science in Computer Science

New York City, NY

Aug 2021 - May 2023

Bard College

Bachelor of Arts in Mathematics

Annandale-On-Hudson, NY

Aug 2018 - May 2021

GPA: 3.88

Honors and Awards: Dean's List, Distinguished Scientist Award, and Scholar-Athlete of the Year

Relevant Coursework Data Structures, Design of Programming Languages, Computer Systems, Advanced Computer Vision, Scientific Computing, Econometrics, Physics I - II, Advance Calculus, Real Analysis, Abstract Algebra, and Partial Differential Equations

TECHNICAL SKILLS

Programming Languages:

Proficient: Java

Worked with: Javascript, Python, Kotlin, C, CSS, and HTML

Libraries and Frameworks: React.js, Node.js, MongoDB, git, and Linux

EXPERIENCE

Crestron Electronics

Remote

Software Engineering Intern

June 2021 - Present

- Wrote 250 Python scripts to test commands on touch screen devices
- Built a CI pipeline using Jenkins on Docker to improve product reliability
- Rotated teams with sales and development to understand client expectations

Bard College Nano and Micro Labs

Annandale-On-Hudson, NY

Undergraduate Researcher

Sep 2018 - Present

- 3D printed microstructures to be used in circuits and commercial equipment
- Stacked 2D images in Python to convert 2D images to 3D point clouds
- Improved precision of printing by 35% through computing flaws in models

Innovation Club

Annandale-On-Hudson, NY

President and Founder

Oct 2018 - May 2021

- Lead and managed groups through projects that innovate campus life
- Created a food funnel machine using Arduino and a robotic arm to sort snacks
- Planned a mental wellness site that helps those with chronic depression

PROJECTS

DiviUP

New York City, NY

Inventor

July 2021 - August 2021

- Created a web app to help long term investors in the face of get rich quick investing
- Used React.js and Javascript to build pages and perform calculations

Tutoring App

Annandale-On-Hudson, NY

Inventor

Feb 2021 - June 2021

- Created a CRUD application to help unify Bard College's tutoring system
- Used MongoDB, Node.js and Javascript to store and display student data and verify logins

Beer Pong in Augmented Reality

Annandale-On-Hudson, NY

Inventor

April 2019 - May 2019

- Created a multiplayer game in 3D augmented reality
- Added compatibility with web browsers and cameras using Javascript and Three.js