


# Vikram Srikishan

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 Vikrsri

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 609-665-7709

## EDUCATION

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### Northwestern University

B.S. Computer Science

GPA 3.95, High Honors: Fall '21, Winter '22

Evanston, IL

Expected Graduation: Spring 2024

### Rensselaer Polytechnic Institute

B.S. Computer Science, transferred

GPA 4.0, Dean's Honor List: Fall '20, Spring '21

Troy, NY

2020-2021

## SKILLS

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### Programming Languages and Technical Knowledge

- C++, C, Java, MATLAB, Javascript, HTML, CSS, Flask, Python, SQL, Git, Unix, Microsoft Office

## EXPERIENCE

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### Intern at Ka Moamoa Lab

Evanston, IL — Summer 2022

- Worked on solar harvesting estimator to predict the energy consumption of a small solar panel
- Wrote Python program and used solar libraries such as pvlib and Pysolar to calculate position of the sun
- Working on creating a mobile application to position solar panel for maximum sunlight exposure

### IT Intern at Horizon Blue Cross Blue Shield of New Jersey

Newark, NJ — Summer 2021

- Designed a Python script to automate an ETL process that was previously done manually, saving employees time
- Wrote a Python program to convert nested JSON files to CSV files
- Made a presentation on maintaining well-being in the workplace and guidelines for talking about mental health

### Undergraduate Data Structures TA

Troy, NY — Spring 2021

- Hold office hours and weekly labs for 25-30 students in CSCI 1200 Data Structures at RPI
- Teach C++ and fundamental data structures concepts

### Google Computer Science Summer Institute – Coursera

Summer 2020

- Invited to participate in Google's Computer Science Summer Institute – Coursera Program
- Completed Data Structures course, focusing on Amortized Analysis, Priority Queues, Disjoint Sets, Hash Tables, and Binary Trees
- Completed Algorithms course in Java, focusing on Greedy Algorithms and Dynamic Programming

## PROJECTS

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### Submittity

Fall 2020-Summer 2021

- Submittity is an open source course management, assignment submission, exam and grading system used to manage 2000+ students from 15 courses in the RPI Computer Science department
- Working on the user interface of the online office hours queue system by writing code in CSS, Javascript, and HTML
- Working on implementing new organization features for instructors using SQL, SQL database queries, and PHP

### Tile-Based Stabilization Algorithm

Summer 2019

- Conducted research under Professor Roman Voronov as part of the NJIT Provost High School Summer Research Program
- Improved large panoramic video stabilization speed by 22% by using SURF detection, a Fast-Hessian detector, and by avoiding loading whole frames into RAM
- Created presentation and presented research at an undergraduate research symposium

## EXTRACURRICULARS

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### Coding&&Community Treasurer and Instructor

Troy, NY — Fall 2020-Present

- Teach Python and computer science skills to local middle school and high school students in the Capital district
- Developed a 10 week Python curriculum by creating presentations and problem sets

### Somerset County Youth Council Co-Chairman

Somerset, NJ — Fall 2017-Summer 2020

- Conduct monthly meetings, volunteer in various community service activities, organize events and presentations to educate the youth about issues plaguing the community