

# Vatsal Baherwani

## Software Engineer Intern

Current Software Engineering Intern with professional experience working in a fast-paced, corporate environment. Strong foundation in mathematics, logic, and algorithms. Looking to gain experience in software engineering, artificial intelligence, and finance.

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## EDUCATION

### B.S., Computer Science

University of Maryland, College Park

08/2021 - Present

### Academy for Technology and Computer Science

Bergen County Academies

09/2017 - 06/2021

GPA: 4.0

#### Courses

- Web Development
- AP Computer Science
- Functional Programming
- Linear Algebra
- C & Data Structures
- Math Foundations of CS
- Computational Theory
- Multivariable Calculus

## WORK EXPERIENCE

### Software Engineer Intern

Bloomberg, L.P.

09/2020 - 08/2021

New York, NY

#### Achievements/Tasks

- Developed a RESTful service using Java and Spring Framework to manage over 900 permissions and settings used by the Bloomberg Law web application.
- Created a responsive and dynamic interface with Vue.js, GraphQL, and Ruby on Rails which communicated with the Java service via HTTP requests.
- Presented interface in front of managers and senior engineers to receive feedback for implementing new features and improving user experience.
- Provided analytics allowing managers to recognize and remove hundreds of unused permissions, reducing login time by over 200ms.

### Computer Science Teacher

Hasbrouck Heights Public Library

09/2019 - 03/2020

Hasbrouck Heights, NJ

#### Achievements/Tasks

- Planned and scheduled a free weekly programming class for over 20 middle school students in coordination with the library director.
- Prepared an introductory, 10-week curriculum teaching the fundamentals of computer science and programming in Python.
- Created practice problems assessing knowledge of user input, conditional statements, and loops.

## SKILLS

Python

Flask

Java

JavaScript

Node.js

Vue.js

PostgreSQL

C

C++

Linux

Docker

Ruby on Rails

GraphQL

Rest APIs

Object Oriented Programming

Aspect Oriented Programming

Algorithms

Discrete Mathematics

Critical Thinking

Collaboration

Adaptability

Communication

## PERSONAL PROJECTS

UnionBlue (09/2020 - 06/2021)

- Developed a PPE inventory dashboard for a friend's client from the Teamsters labor union.
- Designed an interface for viewing available products and contacting the distributor through a secure email form.
- Implemented administrator commands for creating, updating, and deleting stock listings in the database.

Plannet (02/2020)

- Designed a web application enabling users to easily and effectively plan hangouts with their friends.
- Utilized Google OAuth API for user profile creation and an open source map API (Mapbox) for selecting and displaying locations.
- Winner of "Best Vision" award at hackBCA V.

## INTERESTS

Software Development

Artificial Intelligence

Finance

Networking

Quantitative Analysis