

# Ashish Bhat



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ashish-bhat.com



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## education

### university of pennsylvania bse | computer science 2017-present

- gpa: 3.71 (6 semesters)
- minors: math, data science
- graduation: may 2021

### mount olive high school 2013-2017

- class salutatorian
- sat: 2280, act: 34

## coursework

### computation

machine learning (current)  
databases  
computer operating systems  
interactive computer graphics  
algorithms  
big data analytics  
networked systems  
computer architectures  
data structures

### stat/math

simulation modeling  
probability  
computer linear algebra  
discrete mathematics (cs)

## skills

### data

python • pandas

### databases

sql • mongodb • neo4j

### web

javascript • node.js • react •  
HTML\CSS\Bootstrap

### other languages

java • c • c++ • matlab

### other technologies

git • docker • linux •  
solidworks • vagrant • aws

## interests

playing sports, watching and  
reading science fiction.

## experience

### bashpole software | software engineering intern

may 2020 - aug 2020

- led a project to rebuild a detection codebase including a website, tipline and api implementing facial recognition technology, with the ability to compare and identify faces, intended to support anti-trafficking operations
- utilized javascript (angular/node.js), java, python, twilio, docker, aws and mongodb for front-end and back-end development, data storage and deployment

### action iq | software engineering intern

summer 2020

- internship cancelled due to COVID-19

### bae systems | software engineering intern

may 2019 - aug 2019

- developed software for flight modules, specifically a power supply control panel with limit and safety controls along with path controls; developed in C
- designed and implemented an automated file generation tool for company-wide use - created UI to bring together data across legacy and current systems to support greater ad hoc testing; developed in Python
- gained interim secret security clearance for project work

### weiss tech house | student manager

aug 2017 - present

- oversee the function of the weiss tech house - a resource hub for entrepreneurs
- provide support for startups and founders (e.g., conduct market research)

### access engineering | lead teaching assistant

jan 2018 - present

- lead and guide lessons that teach basic concepts across engineering disciplines
- design STEM curriculum for to intellectually stimulate students

### first robotics competition - team 11 | design lead

2013 - 2017

- designed critical end effectors and drivetrains on multiple robots
- managed teams of students to properly design parts in Solidworks

## projects

### find concerts

spring 2020

- worked on a team of three to develop a website that merged ticketmaster concert data with spotify artist data to provide the user an integrated concert finder
- pulled and cleaned data from the spotify api, loaded it into an aws oracle sql database, and designed queries to pull insights from both data sources
- using node.js and react, designed webpages in a user-friendly format

### mini-minecraft

fall 2019

- worked on a team of three to develop a customized version of minecraft from scratch using c++ and OpenGL
- designed terrain generation, optimized terrain chunking for speed, randomized river paths and cave designs
- handled user block placement, removal and selection types