# Ashish Bhat



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# education

# university of pennsylvania bse | computer science

2017-present

- anticipated graduation: may 2021
- minors: math, data science
- gpa: 3.7 (5 semesters)

# mount olive high school 2013-2017

- class salutatorian
- sat: 2280, act: 34

#### coursework

#### computation

databases
computer organization and design
computer operating systems
interactive computer graphics
algorithms
big data analytics
networked systems
computer systems
data structures and algorithms
programming languages

#### stat/math

simulation modeling probability computer linear algebra linear algebra discrete mathematics (cs)

# skills

#### languages

experienced:
python • java • c
proficient:
javascript • matlab • c++ • sql

#### technologies

git • docker • node.js • react • spark • pandas • linux • mongodb • neo4j • mysql • solidworks • qt creator

## interests

playing soccer, basketball and fantasy football, watching and reading science fiction.

### experience

# bashpole software | software engineering intern

summer 2020

• will be working on a large codebase developed to help identify and solve human trafficking cases for the US government

### 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, which involves keeping the study space open and providing entrepreneurial resources to early stage startups
- manage and schedule a team of students to run the Weiss Tech House

## activities

#### 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 and cad parts

# 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