

# Varun Venkatesh

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## EDUCATION

### Bachelor of Science, Computer Science

August 2019 – May 2023

*University of Pittsburgh, Pittsburgh, PA*

- GPA: 4.0/4.0
- Dean's List Recipient

**Relevant Coursework:** Practical Artificial Intelligence, Algorithm Implementation, Deep Learning, Data Structures, Computer Organization, Applied Statistical Methods, Discrete Mathematics, Calculus II

## EXPERIENCE

### Incoming Software Engineer Intern

October 2020 – Present

*NVIDIA, Santa Clara, CA*

- Making unique contributions to solving some of the world's most stimulating technology problems

### Teaching Assistant

August 2020 – Present

*University of Pittsburgh, Pittsburgh, PA*

- Instructing a weekly class of 25 students for Intermediate Programming in a lab format
- Preparing, demonstrating, and grading class material

### Software Intern

May 2020 – August 2020

*Xia Laboratory, University of Pittsburgh, Pittsburgh, PA*

- Designed a tool that categorizes biological samples by generating QR codes tailored to the type of samples collected, using JavaScript and HTML
- Procured and handled existing data from databases to improve dynamic collection and usage
- Automated processes that allowed weekly report generation in Tableau, resulting in more effective visualization of patient data and the optimization of redundant tasks

## SKILLS

**Languages:** Java, Python, Assembly, JavaScript, HTML

**Frameworks/Technologies:** TensorFlow, Keras, PyTorch, Pandas, NumPy, Git, Flutter, Google Cloud Platform, Tableau

## PROJECTS

### Twitter, COVID and Mental Health

- Used Natural Language Processing to correlate politically charged COVID-19 tweets to a relatively worsened state of general sentiment on Twitter
- Predictions were made using 2 binary text classification models and a sentiment analysis model

### Calbot

[git.io/JUEPW](https://git.io/JUEPW)

- Made a Calendar bot that uses data scraped from course details to deliver regular assignment-based reminders to 250 people
- Created in Python, the bot posts reminders through the GroupMe API

### Custom Neural Network

[git.io/JUEPG](https://git.io/JUEPG)

- Designed an informal infrastructure in Python that creates customizable Neural Networks from scratch and uses backpropagation and stochastic gradient descent to make the networks learn
- This infrastructure was then implemented and used to classify handwritten digits

### Pittsburgh's Best Neighborhood

[git.io/JU0Og](https://git.io/JU0Og)

- Collaborative project that ranks neighborhoods in Pittsburgh by analyzing regional data based on parameters such as green space, population density and crime data. Made using Pandas

## ACTIVITIES

### Competitive Programming

August 2018 – Present

- First place at two programming competitions in Bangalore and top 25 in HP CodeWars India, in 2018
- 1 of 9 from the University of Pittsburgh to compete in International Collegiate Programming Competition 2019