

# Nishanth Alladi

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## EDUCATION

**University of Illinois at Urbana-Champaign**, Computer Science and Philosophy

**Thomas Jefferson High School for Science and Technology**, Alexandria, VA

- 4.2/4.0 GPA
- Mobile Apps Club - Lessons Coordinator
  - Taught mobile application development with Android and iOS

## PROJECTS (everything is on my github-- nishanthalladi)

**Holomath** - *HoloLens app that solves math problems (Unity, Node.js with RESTful APIs)*

Used Optical Character Recognition along with Mathematica to solve and output math problems looked at through a HoloLens.

**Othello AI** - *Python program that plays the board game Othello*

Modeled the board with bitmaps, and searched game states with minimax (optimized with alpha-beta pruning, monte carlo search, quiescence search, opening book).

**Swerve** — *Android game (Android: Java, XML, Firebase)*

Created an accelerometer based Android game where your character dodges falling boxes. Used Firebase for high score keeping and for putting app on Google Play Store.

**Edgar** — *Facebook Messenger Chatbot (Node.js, Python, Tensorflow)*

Linked a Messenger chatbot skeleton to a neural network trained on Cornell's movie dialogue corpus to create a conversational chatbot.

**TJCarpool** — *Carpool website: carpool.sites.tjhsst.edu (Node.js, Express, MySQL, Bootstrap, OAuth)*

Created a website for students at my highschool to place requests for and host carpools on, to reduce confusion between social media platforms.

## RELEVANT COURSEWORK

- Fall: CS \*insert here\*
- AP Computer Science A + Data Structures (5)
- Artificial Intelligence
- Mobile/Web Development
- AP Calculus BC (5)
- Honors Physics, Biology & Chemistry

## LANGUAGES/Frameworks/LIBRARIES

Python (Proficient)  
C++ (Proficient)  
Java (Proficient)  
Javascript (Proficient)  
HTML/CSS/XML (Proficient)  
MySQL (Proficient)  
Node.js+Express (Proficient)  
Model/View/Controller (Proficient)  
Tensorflow (Intermediate)  
C (Intermediate)

## AWARDS

USACO Silver Medalist (2018)

National German Exam Gold (2017, 18, 19, 20)

