Karl Gaertner

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Experience In: Java, C, C++   **Knowledgeable In:** Python, JavaScript

Education

Purdue University – West Lafayette, IN   May 2021
- Bachelor of Science: Major in Computer Science
- Courses:
  - Competitive Programming
  - Computer Architecture
  - Data Structures and Algorithms
  - Linear Algebra
  - Entrepreneurship and Innovation
- Current Clubs:
  - SIGAI
  - Purdue Hackers
  - Web Development Club
- GPA: 3.97/4.00

Libertyville High School - Libertyville, Il   May 2017
- GPA: 4.38/4.00

Personal Projects

- **Blackjack** – A complete single player game of blackjack including a graphical user interface.
- **Bid-Tac-Toe** – A Tic-Tac-Toe app for Android with a twist. Through this project, I taught myself how to use Android Studio so that I would feel more comfortable creating new apps.
- **Chrome Extensions** – Programs that eased common tasks while allowing me to learn about JavaScript and HTML
- **Neural network** – A project to introduce me to machine learning and apply my knowledge learned in linear algebra

Experience Through Clubs

Coding Cats   2016 - 2017
- Participated in hackathons to develop coding skills and explore new areas of coding while working with other people

Math Team   2013 – 2017
- Competed and prepared for several math competitions by studying past exams while also writing calculator programs and constructing formulas and shortcuts based off patterns in similar problems
- Illinois Council of Teachers in Mathematics
  - Junior-Senior Two Person competition state champion (2017)
  - Overall team state champion (2015, 2016)
  - Freshman-Sophomore Relay state champion (2015)
  - Overall team state runner-up (2014)
- Illinois Math League
  - Individual runner-up (2017)

World Youth in Science and Engineering   2014 - 2017
- Competed in interscholastic competitions to exhibit ability in mathematics and computer science mechanics
- Studied C++ basics, digital logic, number systems, data structures, and algorithms while also practicing following program logic

Work Experience

- Amazon Warehouse Employee   2018
  - Sorted and stowed packages in a high pressure, fast paced environment.
- Referee for Greater Libertyville Soccer Association   2011 - 2016
  - Managed the game as a center and assistant referee to enforce the rules while keeping players safe
  - Advised and evaluated junior referees as a supervisor to help them learn how to better ref their games
- Ride Operator for Six Flags Great America   2016
  - Helped guests traverse the park and answered their questions to keep them happy
  - Activated rides and kept the ride area clear of threats to ensure the safety of our guests