

Robert Villa

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Education

University of Illinois Urbana-Champaign
Bachelor of Science in Computer Science (Engineering)
Minor in Physics (Engineering)

Exp. 2023
GPA: 4.0/4.0
Chancellor Scholar, James Scholar

Relevant Courses

CS 125 - Intro to Computer Science	CS 225 - Data Structure and Software Principles
CS 126 - Software Design Studio	CS 361 - Probability and Statistics for Computer Science
CS 173 - Discrete Structures	CS 374 - Intro to Algs & Models of Comp
CS 233 - Computer Architecture	CS357 - Numerical Methods
CS 241 - System Programming	CS411 - Database Programming

Projects

Minimum Spanning Tree Visualizer, a React app coded using JavaScript, HTML, and CSS

- Allows the user to create a weighted graph with an interactable interface
- Animates the logic behind different minimum spanning tree algorithms

Evade, a physics-based game coded in C++

- The player dodges objects and collects keys as they move throughout the 2D world
- Used Cinder to help with graphics and physics calculations

Ultimate Tic-Tac-Toe, an Android app coded in Java

- An expanded and more complex take on traditional tic-tac-toe
- Implemented a user-friendly GUI and incorporated HTTP web requests in the project

Work Experience

ASAR Digital – Intern (2021)

- Summer intern at ASAR Digital, a company that helps supply customer experience software to other businesses.
- Researched and helped with the development of software extensions for SAP solutions

Official Finders – Umpire (2019 - 2020)

- Umpire for youth baseball and softball games – carried out the rules of the sport and maintained a fair, competitive environment for the players

Activities

The Association for Computing Machinery (ACM) (2019 – Present)

- A member of SIGPwny, a special interest group focused on information security

Campus Honors Program (CHP) (2019 – Present)

- Participate in the Honors Student Council and help organize events for the program
- Attend honors courses offered each semester

Skills

- Java	- C++	- C	- Python	- JavaScript	- HTML
- CSS	- SQL	- React	- JSX	- IntelliJ	- LaTeX