

# Carson Rottinghaus

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## EDUCATION

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### University of Missouri-Columbia

*Computer Science, BS*

Columbia, MO

*Expected December 2022*

- GPA: 3.5
- Software Engineering courses focused on collaboration with development life cycles and version control
- Web Development courses focused on Angular, Firebase, and live deployment
- Database management courses focused on SQL
- Unix courses focused on Unix-like systems, command line syntax, and bash scripting
- Game development courses focused on Unity3D
- General computer science courses focused on data structures and algorithms

## PROJECTS

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### Personal Portfolio | *Angular, TypeScript, HTML, SCSS, Firebase, GSAP*

- A portfolio webpage made to showcase my programming projects with source code and live deployments
- Implemented Firebase support for user feedback
- Utilizes GSAP for custom animations and parallax scrolling
- Hosted on an AWS EC2 Ubuntu Instance with SSL Certification
- All projects listed on my resume (and more) at <https://www.carsonrottinghaus.me>

### Chat App | *Angular, TypeScript, HTML, SCSS, Firebase*

- A real-time messaging application with support for Google Authentication, Google Maps API and Giphy API
- Implemented Firebase to store chat and user data
- Stored chat room data in an array based document to reduce Firebase document reads
- Utilizes Angular Guards and Firebase Rules to ensure authentication security

### Multiplayer Basketball Game | *LUA*

- A 3D multiplayer basketball game that implements projectile motion calculations
- Utilizes server and client relations to sync projectiles across clients

### M.V.C Tic-Tac-Toe | *JavaFX, Java*

- A simple Tic-Tac-Toe desktop GUI
- Implemented with a Model-View-Controller Architecture
- Utilizes a singleton class pattern to manage data across scenes

### Task Manager | *Angular, TypeScript, HTML, SCSS, Firebase*

- A full-stack application made for managing tasks (Similar to trello).
- Implemented Firebase CRUD operations for managing and manipulating tasks

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Python, Java, C#, C, LUA, SQL, 68HC11 ASM, HTML, SCSS/CSS

**Front-End:** Angular, JavaFX, Unity3D, GSAP

**Back-End:** Firebase, MySQL, PHP, phpMyAdmin

**Other Tools:** Git, Amazon Web Services, Linux Systems