

# Joseph Aschenbrenner

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## Experience

### Software Engineer

Grata Software, Orlando, FL

May 2022-Present

- Developed full stack enterprise applications using .NET with C# and Angular with HTML / CSS / JavaScript among other front end and back end technologies.
- Served as the lead engineer of a global application used by employees of an international technology company, creating a management software to handle 1000s of requests received across 20+ time zones for users in 11 different countries.
- Proactively addressed the need for an internal application by designing and creating one to track leads and potential clients, streamlining information management with contact details and concise company summaries, creating a highly efficient solution for the sales team.
- Elevated role beyond coding responsibilities to spearhead design initiatives within the development team, contribute to QA engineering efforts, and orchestrate the deployment and management of applications on the AWS cloud computing platform.

### Intern

AgileThought, Tampa, FL

June 2019-July 2019

- Supported the Office 365 platform with projects such as leading the integration of 200+ employee profiles to the Microsoft Teams communication platform.
- Analyzed and ensured the validity and accuracy of tenured employee profiles within an Excel database.
- Programmed a single-board computer (Raspberry Pi) to present company images and videos on a flatscreen display at the entrance of the office.
- Initialized and configured company laptops for use by the US-based workforce.

## Projects

### AI Recipe Recommendation App

- Developed a cross-platform application using Ionic framework for iOS, Android, and Windows.
- App generates recipe ideas with the user's available ingredients through AI-generated suggestions.
- Leveraged OpenAI's GPT-3.5 language model to power the AI-driven recipe recommendation feature.
- Implemented a clean, minimalistic interface that allows users to input and track their available ingredients and view a variety of recipe ideas.

### Merge Sort Ranking Program

- Created a program in the C language that utilizes the Merge Sort sorting algorithm to rank items in an array.
- User inputs a series of entries which are stored in an array of strings, with all memory being managed dynamically. Once the user is finished inputting entries, the user makes a series of choices between 2 entries at a time to rank them by the nature of Merge Sort.
- Utilized knowledge of dynamic memory, recursion, and sorting algorithms (incl. run time complexity)

### Obstacle-Avoidance Game Application in Unity

- Developed a 3D game application written in C# using the Unity Game Engine.
- Application currently features 3 levels of increasing difficulty.
- Player is controlled using the physics engine built into Unity; the player moves forward automatically and has the ability to slide left and right to avoid obstacles.

## Education

### UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL

December 2024, Bachelor of Science in **Computer Science**

Relevant Coursework: Computer Science I, Object Oriented Programming, Security in Computing

Honors/Awards: **UCF Provost Scholarship, National Honor Society, Burnett Honors College, FL Bright Futures**

## Skills

- PROGRAMMING LANGUAGES: C#, HTML, CSS, JavaScript/TypeScript, PHP, Python, SQL
- FRAMEWORKS & LIBRARIES: .NET Core, Angular, Laravel, Ionic
- MISC: Amazon Web Services, Unity, PowerShell, GitHub, Jira, Agile/Scrum Methodology