

Ryan Garfinkel

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Education

Bachelor of Science in Computer Science

Expected: May 2026

University of Central Florida | GPA: 4.0

Orlando, Florida

- **Relevant Coursework:** Software Engineering (IP), Algorithms for Machine Learning (IP), Systems Software, Processes for Object Oriented Software Development, and Security in Computing.
- **LinkedIn Learning courses:** DevOps Foundations, Software Development Life Cycle (SDLC), Java 8 Essential Training, Sustainable Software Architecture, and Learning End-to-End Testing with Jest.

Work Experience

IT Intern

June 2024 – Aug. 2024

Vertical Bridge

Boca Raton, Florida

- Developed a page to display site metrics, enhancing data visualization and supporting decision making.
- Improved user experience with multiple UI edits for consistent design across pages.
- Created a POC for generating PDFs in C# using QuestPDF for site marketing.

Undergraduate Learning Assistant

Aug. 2023 – Apr. 2024, Aug. 2024 – Present

University of Central Florida

Orlando, Florida

- Mentored students taking Computer Science I through the Fall 2023, Spring 2024, and Fall 2024 semesters.
- Conducted 61 private tutoring sessions and weekly office hours to address student inquiries.
- Facilitated 3 weekly recitation sessions to reinforce and clarify course concepts.

IT Intern

June 2023 – Aug. 2023

Vertical Bridge

Boca Raton, Florida

- Developed a webpage using ASP.NET and a SQL database to project the tower cash flow of various sites.
- Created an automation in UiPath to parse and upload daily lockbox deposits into SharePoint.
- Recorded input fields from a web application in Excel to aid in requirements discussions.

Projects

Overcharged | Unity (C#), MongoDB

[GitHub Repository](#)

- Won 3rd Place in the Next Era: Energy Efficiency Challenge at Knight Hacks VII.
- Developed login and leaderboard pages to enhance user engagement and promote competitive gameplay.
- Wrote custom C# scripts, enabling data storage/retrieval between Unity and MongoDB.

Digit Recognizer | Tensorflow, Keras, scikit-learn, Pygame

[GitHub Repository](#)

- Trained a CNN with the Tensorflow Keras Sequential model to classify digits from MNIST dataset.
- Achieved 98% accuracy on test data and evaluated model performance with scikit-learn.
- Developed interactive Pygame app to showcase real-time predictions from the model.

Cohab Roommate App | MongoDB, Node.js, Express.js, Socket.io

[GitHub Repository](#)

- Utilized JSON Web Tokens and Nodemailer for request authentication and email verification, enhancing security.
- Designed instant messaging functionality using Socket.io, enabling real-time communication between users.
- Developed an API to manage user data and rooming groups, ensuring reliable server communication.

Technical Skills

Programming Languages: Java, Python, C#, HTML, CSS, JavaScript, TypeScript, C.

Frameworks & Libraries: Unity, Node.js, Express.js, React, Angular, TailwindCSS, Jest.

Tools: GitHub, Git, MongoDB, MySQL, Postman, SwaggerHub.