

Ryan Garfinkel

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EDUCATION

University of Central Florida

Expected Graduation: May 2026

Bachelor of Science in Computer Science, Minor in Data Science

Orlando, FL

- CodePath Training: Peer Mentor Program, iOS 101, Technical Interview Prep 102.

EXPERIENCE

Software Engineering Intern

June 2025 – Present

Precisely

Remote

- Shipped accessibility improvements across 15+ UI components for keyboard navigation and screen reader support.
- Reduced Chromatic false positives by 60% by making Storybook tweaks used in UX regression reviews.
- Refined color palettes to meet WCAG standards, ensuring compliance and better readability for users.

Undergraduate Learning Assistant

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

University of Central Florida

Orlando, FL

- Mentored 750+ CS1 students on data structures and algorithms in C, supporting understanding of core concepts.
- Facilitated weekly recitations and office hours, guiding students with debugging, exam prep, and assignments.
- Led 61 one-on-one tutoring sessions, resulting in improved performance on exams and boosting confidence.

IT Intern

June 2023 – Aug. 2023, June 2024 – Aug. 2024

Vertical Bridge

Boca Raton, FL

- Automated transaction document workflow to SharePoint with UiPath, saving 2+ hours of manual processing per day.
- Built dynamic site-summary generator in C# with QuestPDF, accelerating marketing team's ability to promote sites.
- Engineered Angular dashboard to visualize 6+ site metrics, enabling leadership to make data-driven decisions.
- Integrated Azure SQL data with Angular and C# webpage to forecast tower cash flow, supporting financial planning.

PROJECTS

KBootRepair | *LangChain, Python, klocalizer*

- Engineered iterative repair agent to fix non-bootable kernel configs, using klocalizer to satisfy option constraints.
- Achieved 60% repair success rate across randomized broken kernel configs, validated by successful kernel boot.
- Built embedding-based search tools to query kernel logs and configs, minimizing context window usage.

AskPolaris | *React, Flask, Azure*

- Engineered document ingestion pipeline with a review process before entering RAG knowledge base.
- Built pre-ingestion quality checks covering document similarity, grammar, and spelling to maintain data integrity.
- Built upload and review pages enabling uploaders and reviewers to collaborate before document approval.

Overcharged | *Unity, MongoDB, C#*

- Won 3rd Place in the Next Era: Energy Efficiency Challenge at Knight Hacks VII by building a Unity game.
- Designed login and leaderboard UI to track scores and foster competition among players.
- Implemented 4 C# endpoints, connecting Unity with MongoDB for persistent player data.

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

- Developed instant messaging feature with Socket.io, enabling real-time conversations between users.
- Built RESTful API with Express to authenticate requests and maintain user data.
- Implemented email verification with Nodemailer, strengthening account security.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, C++, C#, C, HTML, CSS, TypeScript

Web Development: React, Angular, Node.js, Next.js, Express.js, TailwindCSS

Machine Learning: TensorFlow, pandas, NumPy, Matplotlib, scikit-learn

Developer Tools: Git, Docker, GitHub Actions, Postman