

# James Carnegie

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## EDUCATION

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### University of Central | Orlando, Florida | Expected Graduation: 2029

- Freshman, future B.S. in Computer Science, focus: machine learning, Knight Hacks @ UCF

### Riverview High School | Sarasota, Florida | Graduated: 2025

- 1510 SAT, 4.9 W GPA, 10 AP/IBs, AP CSA, IT Directed Study

## PROFESSIONAL EXPERIENCE

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### Mitozen | Sarasota, Florida | Lab and Packaging Assistant (Part-Time) | 2021 - 2024

- Assisted with technical and computer-related tasks in addition to packaging and lab work
- Used CS skills to optimize a 4-hour labelling task into taking 15 minutes

## PROJECTS & EXTRACURRICULAR

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### CSVO (Computer Science Volunteering Organization) | Co-Founder | 2023 - 2025

- Co-Founded the CSVO, which taught basic CS skills to elementary classes of 10-15 kids
- Improved typing speeds by 3x and children engaged with basic logic operations through game development

### S-Analyzer and Trader | Independent Projects | 2022 - Present

- Built machine learning based investment tools and optimized for GPU computation, running up to 20x faster
- Trader has outperformed holding 8/10 times and is constantly being improved (currently closed source)

### Personal Portfolio Website | Independent Project | 2025

- Full Stack website, hosted on a Linux home server with Docker, deploying updates in under 3 seconds
- Made from scratch with minimal frameworks for simplicity and efficiency, costing ~\$10/year in energy costs

### Additional Projects | Worked with various other students | Small in scale | 2024 - 2025

- Built Podium, an AI interview bot which questions users and analyzes their posture and responses
- Built Kubernetes-based mini supercomputer using Jetsons and Raspberry Pis
- Worked with a PostgreSQL server, hosted over LAN on a hotspot provided by Riverview High School

## CERTIFICATIONS

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- Microsoft Technology Associate (MTA) - Introduction to Programming Using Python
- Information Technology Specialist - Java
- Autodesk Certified User - Fusion 360
- Microsoft Office Specialist - Outlook, Excel, PowerPoint, Word
- IC3 Digital Literacy Certification - GS5 Spark

## SKILLS

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- **Programming Languages:** Python, Java, Rust, C++, Lua, JavaScript
- **Experience:** 10+ years programming (started at 8 with game scripting; full stack & ML in High School)
- **Software / frameworks:** PyTorch, NumPy, Flask, TensorFlow, SSH, Linux, Docker, PostgreSQL, DevOps
- **Languages:** English (native), Spanish (basic)