

JOSEPH GIORDANO

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EDUCATION

University of Central Florida

Expected Graduation, May 2022

Bachelor of Science in Computer Science | Minor in Mathematics

GPA: 3.33/4.0 | Major GPA: 3.4

WORK EXPERIENCE

Research Assistant, *UCF EC Lab*

Summer 2019 - Present

- Leads development for two multi-agent simulators under a National Science Foundation grant, takes responsibility for writing algorithms into code, designing and executing experiments, and collecting results.
- Coding scripts for statistics, animations, prototypes, and data visualizations.
- Delivers technical presentations, writes documentation, and conducts literature reviews.

PROJECTS

VISIONome (Bioinformatics Visualization & Educational Application)

Senior Design Project

- Directed team's Agile workflow as PM, led front end development, and collaborated with faculty mentor.
- Developed user interface in Figma and created site dashboard and visualization in React with TypeScript. Leveraged the Three.JS framework to render 3D chromosome models from transformed genome JSON data.
- Implemented highlighting mechanism for pinpointing features in the genome matching user search results.

Face Mask Detector (Implementing Facebook AI's Detectron Model)

School Project

- Faster R-CNN that detects faces in videos or images with corresponding mask type.
- Took responsibility for data visualization with Matplotlib and other Python libraries, performance tracking in TensorFlow, and training image labeling with UDT.

Virtual Compiler in C

School Project

- Lexical analyzer, parser, and virtual machine programmed from scratch. Took responsibility for all programming, along with unit testing to ensure component functionality.

BudgetBuddies (Site and Mobile Application)

School Project

- Children's educational budgeting application. Took responsibility for programming front end in React.js.
- Directed Agile development with Jira, including daily stand-ups, and product backlogs.
- Led work on mobile application development in React Native.

Research Accomplishments

Research Assistant, *Evolutionary Computation Laboratory*

Summer 2019 - Present

- Honorable mention recipient for the Computing Research Association's (CRA) Outstanding Undergraduate Researcher Award for 2021.
- 2 Publications accepted and presented at (1 co-authored, 1 lead author) for the 33rd *Florida Artificial Intelligence Research Society (FLAIRS)* conference.
- 1 publication (extended abstract) and poster accepted for the 20th *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2021)*.

ACTIVITIES

- Sponsorship Team Member and Newsletter Writer at Knight Hacks, Project Team with AI@UCF
- Regular presenter for Evolutionary Computation Lab weekly meetups
- Participation with AI@UCF, HACK@UCF, SIGACT, and Volunteer UCF.

SKILLS

- Programming Languages: C/C++, Javascript, Typescript, Java, Python, PHP, Dart, Bash, MySQL, NoSQL
- Frameworks: React, Flutter, React Native
- Technologies: Git, MacOS, Linux, Windows, Office, LaTeX