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Education

University of Central Florida Orlando, FL

Aug. 2020 – Present

Russian as a Critical Language Certificate

Fall 2023

Burnett Honors College Bachelor of Science in Computer Science

May 2024

Master of Science in Computer Science

Expected May 2025

Relevant Coursework

- | | | | |
|----------------------|---------------------------|-------------------------|----------------------------|
| • Agile Methodology | • Development | • Computer Architecture | • Functional Programming |
| • Computer Vision | • Data Structures | • Object-Oriented | • Quantum Computing |
| • Machine Learning | • Algorithm Analysis | • Programming | • Evolutionary Computation |
| • Cross-Platform App | • Artificial Intelligence | | |

Experience

UCF Outdoor Adventure, Recreation and Wellness Center

August 2023 – Present

Climbing Tower Attendant

Orlando, FL

- Perform opening safety checks on Climbing Tower equipment, including checking ropes, inventorying shoes and harnesses, and restocking cleaning materials.
- Introduce newcomers to rock climbing best practices, including safety strategies and technical skills.
- Vet personal risk management skills through Red Cross CPR+First Aid certification, and apply these skills while belaying or otherwise supervising gym patrons.

UCF Russian STARTalk Summer Program

June 2023

Teaching Assistant

Orlando, FL

- Supervised the success of 24 intra-/international students, ages 14 to 22, in learning Russian in a fast-fluency sleepaway camp.
- Organized teaching materials, filmed promotional material, and transported guest speakers for this NSA-funded program.

UCF Burnett Honors College

May 2023 – June 2023

Honors Orientation Ambassador

Orlando, FL

- Welcomed incoming Honors students to UCF, holding one-on-one academic advising sessions with them and helping them understand courseloads, extracurricular opportunities, and clubs at UCF and beyond.
- Helped host multiple Burnett Honors College open-house events to welcome families to the school and feel more acquainted with the benefits of involvement at UCF.

CodaKid LLC

Spring 2021 – Fall 2022

Children's Programming Tutor

Online

- Individually tutored 11 students a week, ages 7 to 14, on Lua, Java, and Python programming.
- Simplified complex programming concepts into more digestible formats, such as diagrams and on-screen Zoom Annotations.
- Identified bottlenecks in students' individual learning patterns, and adapted coursework to help them unlock success.

Academic Projects

Project Manager, Game Designer, ELLE-Plied Linguistics | Agile, Unity, WebGL, C#

Fall 2023 – Spring 2024

- Lead a Senior Design team to extend an existing UCF foreign-language-learning suite for use in the field of Applied Linguistics.
- Utilized Jira and Discord bots to organize Agile Scrum sprints with the team, encouraging accountability within the team.
- Headed the development of a new linguistics game for the ELLE (*EndLess LEarner*) suite, *Pasta Kerfuff-ELLE*.

Multi-Cancer Image Classification Using Convolutional Neural Networks

Fall 2023

Python, OpenCV, Google Colab, SLURM, Conda Environments

- Worked with a partner to develop testing frameworks for UCF's *Newton* HPCC as well as Google Colab for a cancer classification task given a dataset of many histopathological and MRI images.
- Implemented, tested, and verified various computer vision models, such as CNN, U-Net, and other state-of-the-art models, but focused final work on developing our own rudimentary, small-scale model for the same task.
- Performed extensive medical research and ERD to contextualize the (mock) research paper submission made for this graduate course project.
- Wrote useful supporting documentation such that our research could be further reproduced and extended by others in the field.

Lead Design Engineer, SquadUP | MongoDB, React, WebSockets, ExpressJS, NodeJS, Python, DigitalOcean

Summer 2022

- Designed the frontend experience for users looking to meet fellow players, such that they can queue up to play assorted popular games together.
- Developed an automatic Discord bot using Python to pair users playing together in a private call.
- Managed the MongoDB Atlas connections and database blueprints used by our backend.
- Performed Unit Testing and oversaw the User Testing we employed.

Technical Skills

Languages: Python, JavaScript/TypeScript, Java, C, C++, C#, Lua, Haskell, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio

Technologies/Frameworks: LAMP+MERN stacks, SLURM, Git/GitHub, JUnit, Tensorflow, Keras, Pandas

Leadership / Extracurricular

Russian-American Student Association

Fall 2023 – Present

President

University of Central Florida

- Lead a chapter of 30+ members towards improving and promoting cross-cultural community, academics, and foreign language skills.
- Managed executive board of 5 members, organizing weekly meetings for members to learn about Eastern European culture, language, and history through presentations, games, and guest lectures.

Fast-Fluency Russian Language Program

July 2023

Student

Western Caspian University; Baku, Azerbaijan

- Member of the first American cohort to study abroad in Azerbaijan. Learned about the history, culture, and languages of the Caucasus region through over 15 cultural excursions and 7 hours of classes a day, for 26 days.