

# ANDREW VALENTIN

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## EDUCATION

### Bachelors in Computer Science

University of Central Florida | Orlando, FL May 2025

⚙️ Concentration: Artificial Intelligence and Machine Learning

✂️ Minors: Mathematics and Intelligent Robotic Systems

✓ GPA: 3.5

💡 Relevant Coursework: Processes for Object Oriented Software

Development, Machine Learning, Programming  
Languages, Computer Architecture

## ACADEMIC INVOLVEMENT

- UCF Robotics Club March 2024 - Current
- AI@UCF Member Jan 2023 - Current
- KnightHacks Member Aug 2021 - Current

## SKILLS

- Proficient in Python, C, JavaScript, and Java
- Experienced in C++, C#, TypeScript, and web and app development
- Proficient with frameworks such as .NET and Rasa
- Familiar with AI/ML libraries such as PyTorch and TensorFlow
- Strong in leadership, teamwork, and communication

## EXPERIENCE

### Software Engineer Intern

JP Morgan Chase and Co. | Tampa, FL June 2024 – Present

- Develop and deploy a chatbot that answers questions and retrieves information that is requested by the user
- Implement an API that allows for the transfer of data between the chatbot and a variety of microservices
- Create a pipeline for the purpose of deploying the chatbot for both development and production
- Train the chatbot to handle a wide variety of user inputs and to determine the specific information that is returned to the user

### Undergraduate Research Assistant

University of Central Florida | Orlando, FL Jan 2023 – April 2024

- Added, maintained, and refined features on a website that aimed to assist children with special needs
- Implemented new ideas that increased interest in STEM and provided resources to help special needs children understand topics such as bullying, cyber-attacks, etc.

## PROJECTS

### Human Face Image Generator

- Implemented utilizing a Generative Adversarial Network (GAN) in Python with the Keras library
- Fine tuned to create fake images that are nearly indistinguishable to real images with low loss
- Trained with a dataset containing over 200 thousand images in order to produce a wide variety of generated images
- Created a validation set to assess and ensure the improvement of the model's performance

### Online Newspaper Website

- Worked as backend developer in charge of integrating crucial functionalities to an online newspaper website
- Incorporated article creation, article editing, image uploading, account creation, and login functionality using MongoDB
- Utilized Node.js to run a local server that handled API calls and backend tasks
- Developed and employed a method to manage client and server functionalities concurrently

### Image Rectification App

- Developed using Java, JavaFX, and Python
- Utilized OpenCV and Numpy to create an algorithm that rectifies images
- Created a simple user interface with JavaFX
- Integrated Python script with Java app in order to apply image transformations

## AWARDS

### National Science Foundation Grant

Due to my involvement with research into providing adolescents with autism spectrum disorder (ASD) with resources that create interest in STEM and an understanding of topics such as bullying and cyber-attacks, the National Science Foundation (NSF) has provided me with a grant to help me continue my work and create more positive impact on the world and the community we aim to assist with this research.