EDWARD ZHANG

edwardzhang5@gmail.com | (561) 202-7436 | Gainesville, FL, 32601 | [LinkedIn](#) **|** [GitHub](#)

EDUCATION

University of Florida (UF) - Gainesville, FL   **Projected Grad Date: Spring 2023**
B.S. Computer Engineering, B.S.B.A Finance   GPA 3.97/4.00
- *Coursework:* SW Testing Continuous Delivery, Software Engineering, Microprocessors, Data Structures
- *Honors:* Dean's List, Benacquisto Scholarship, National Merit Scholar, Eta Kappa Nu

WORK EXPERIENCE

Florida Institute for Cybersecurity Research - Gainesville, FL   **January 2021 - Present**
Undergraduate Researcher – Worked under Dr. Domenic Forte on the AutoBOM project
- Preprocessed cat images taken from the LSUN dataset to train a generative adversarial network (StyleGAN2) on UF's HiPerGator supercomputer using Python scripts to allocate resources and run network training code.
- Produced preliminary results of deblurring and image reconstruction on face images from the FFHQ dataset.
- Extracted and processed topological data using toolkits to successfully identify components within an image.

NextEra Energy - Juno Beach, FL   **May 2021 – August 2021**
Information Technology Intern – Cost and Performance
- Increased allocation of $25 million general software purchases from unclassified to specific NextEra IT applications from 3% to 54% by collaborating with product owners, financial analysts, and TBM experts.
- Developed an app and wireframes to reduce wasted spend by $2 million and win the Highest Energy award.
- Developed Excel macros using Office VBA to automate spreadsheet creation, reducing production time by over half.

Dow Jones – New York City, NY   **June 2019 - August 2019**
Innovation Lab Intern
- Developed a pitch deck for a marketing campaign to drive WSJ-sponsored college activations.
- Researched and presented suggestions to leadership on an app concept targeting younger generations.
- Assisted in proofreading daily Wall Street Journal City articles and newsletters.

LEADERSHIP AND INVOLVEMENT

Theta Tau Engineering Fraternity - *Academic Chair (2021), Food Service Chair (2021)*   **January 2021 - Present**
- Organized academic help for brothers and coordinated food service and grilling at fraternity events.

Eta Kappa Nu (HKN) Epsilon Sigma - *ECE Curriculum Chair (2020-2021)*   **January 2020 - Present**
- Helped improve the virtual learning experience for ECE classes, including a camera-on initiative during class.

Civil Air Patrol (CAP) – *Cadet Executive Officer, 1st Lieutenant*   **June 2015 – May 2019**
- Led and educated cadets and sergeants on leadership skills, aerospace education, and character development.

PROJECTS

Software Testing REST API Development   **August 2021 – Present**
- Developed a REST API for financial functions using Cloud Firestore for API key storage and access logging.
- Implemented test-driven development with automated unit tests and integration tests for external dependencies.
- Deployed application on Google App Engine and created Docker container for local hosting.
- **Technologies/Tools:** Node.js, Express, Cloud Firestore, Google App Engine, CI, Integration/Unit Testing, Docker

Gatorloop Inventory Management System (IMS) – *Agile Project Manager*   **January 2021 – May 2021**
- Managed a five-person agile team to build and deploy a web app with MongoDB backend and login features.
- Directed scrum meetings, controlled project scope, and worked with the client to develop a clear product vision.
- **Technologies:** MERN stack (MongoDB, Express, React, Node), Git, Agile Scrum.

Spotify Song Recommendation – *Team Leader*   **August 2020 – December 2020**
- Led a 3-person team through project ideation, development, testing, and presentation.
- Developed an algorithm that processed 100,000 data points to extract relevant stats and match them to users.
- **Technologies:** C++, Python, Kaggle.

TECHNICAL SKILLS / INTERESTS

Skills: C++ (Expert), Python (Expert), Git (Expert), Java (Proficient), React (Proficient), Agile Scrum (Proficient)
Interests: Machine Learning, Project Management, Full-Stack, Computer Vision, Finance, Entrepreneurship