Anthony Khoury

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**EDUCATION**

**University of Florida,** Herbert Wertheim College of Engineering  **Graduation: May 2022**

**Bachelor of Science** in Computer Engineering | Minor in Finance **GPA: 3.45/4.00**

**Coursework:** Data Structures, OS, Machine Learning, Databases 1&2, Bioinformatic Algo, UX Design, Microprocessors

**PROFESSIONAL EXPERIENCE**

**VMware,** *Software Engineering & Data Analysis Intern*  **May 2022 – Aug 2022**

* Automated 4 Tableau dashboards by connecting a virtual machine, SQL server, MySQL database, and 15 complex queries to visualize data on our virtual cloud’s life cycle in real-time
* Optimized python script by 67% using multiprocessing and threads to report logs and errors on failed virtual machines

**University of Florida,***Teaching Assistant - Software Engineering*  **Jan 2022 – Present**

* Instructed 24 advanced students weekly to increase their foundational skills in Python, React, Mongo DB, and Java
* Collaborated with a Professor and 4 TAs to create lesson plans, projects, and exams covering topics including source control, testing, security, agile development, scrum, and ethics

**VMware,** *Cloud Development & Project Management Intern* **May 2021 – Aug 2021**

* Developed an interactive web app using Angular and TypeScript to visualize product test flakiness over time
* Implemented backend REST APIs using Node.js, Express.js, and Swagger to seamlessly integrate the frontend
* Optimized MongoDB queries reducing time spent loading the dashboard from 20 to 2 seconds
* Managed the progress of 72 Jira stories through an agile workflow and holistic documentation to reduce test flakiness

**GE Appliances,** *Software Development Intern* **Jan 2021 – Apr 2021**

* Saved GE Appliances $60,000 annually by collaborating with financial analysts to create a web-scraping python script that performs weekly competitive analysis generating accurate shipping and pricing data
* Automated the I9 validation process using a data manipulation python library saving the HR department 1.5 hours daily

**LEADERSHIP & ACHIEVEMENTS**

**2-Time Intern Hackathon Winner,** *VMware*  **Aug 2021 & Aug 2022**

* Developed a Microsoft Outlook plugin using C# to improve workplace relationships in a hybrid environment by synchronizing when team members will be in the office
* Directed 3 interns through the ideation, development, and presentation of a Figma prototype aimed at centralizing the company’s onboarding and offboarding process

**Professional Development Chair,** *Theta Tau Engineering Org****,*** *University of Florida* **May 2021 – Dec 2021**

* Administered resume reviews, mock interviews, and networking sessions to prepare 81 members for job opportunities
* Organized a career fair hosting 9 engineering companies in a virtual and in-person environment

**Startup Hackathon Winner,** *University of Florida* **May 2019 – July 2019**

* Led a team of 5 to create a company from scratch addressing key gaps in the cleaning service industry through pricing algorithms, customer analysis, and financial projections
* Placed 1st out of 15 teams, winning a $6000 grant covering legal fees, forming an LLC, and writing a business plan

**PROJECTS**

**Machine Learning,** *Handwritten Number Recognition Calculator*  **Jan 2022 – Apr 2022**

* Developed an ML python model using edge histogram descriptors and k-nearest neighbor, receiving an accuracy of 87%
* Collaborated with a teammate to write a report, collect data, fine-tune parameters, and experiment with other ML models

**Freelance Web Development,** *Food Justice League (foodjusticeleague.com)*  **June 2021 – May 2022**

* Designed a website using WordPress to promote social justice at UF by collaborating weekly with the President of the org
* Created holistic documentation allowing the exec board to independently update the site with events and accomplishments

**SKILLS**

**Programming Languages**: Python, JavaScript/TypeScript, Java, SQL, C++/C#/C, VHDL, HTML, CSS

**Tools/Frameworks**: Git, React, Angular, MongoDB, Express.js, PyTorch, Scikit-Learn, Pandas, Bootstrap, SolidWorks

**Topics:** Web/App Dev, DB Management, Robotic Process Automation, Agile Dev, Web Scraping, Computer-Aided Design