

Zachary Tenn Yuk

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Professional Summary: Problem-solving software engineer with 4+ years of experience in technical and non-technical roles. Specialties include object-oriented programming, data analysis, time management, workshop presentation, and Microsoft Office. Interested in gaining more experience with machine learning, full-stack development, and community-focused technology.

EDUCATION

University of Florida (UF) | Presidential Platinum Scholarship | Honors Program | Dean's List

Expected Graduation: May 2026

Bachelor of Science: Computer Science | Minor: Digital Arts and Sciences

GPA: 4.00/4.00

Relevant Courses: Software Engineering, Data Structures & Algorithms, C++ Fundamentals, Discrete Math, Computer Organization, Differential Equations, Engineering Statistics, Computer-Aided Animation, Digital Visualization

SKILLS

Languages: C++, Java, JavaScript, TypeScript, Python, R, HTML/CSS

Frameworks/Libraries/Tools: React.js, Next.js, Express.js, Node.js, MongoDB, Tailwind CSS, SFML, Replit, Figma, Agile

EXPERIENCE

NSF REU Researcher – Jain Lab, Herbert Wertheim College of Engineering – **EduToon (In Progress)**

Dec 2023-Present

- Built a full-stack web application (EduToon) using React.js, Node.js, and Express.js that creates comic summaries of research papers
- Leveraged OpenAI API GPT and DALL·E models for summarization, prompt creation, and image generation of key research insights

Software Engineering Intern and Fellow – Florida Community Innovation Foundation (FCI)

Sep 2023-Present

- Expanded FCI's community resource map to connect users to healthcare, education, and other resources in Florida
- Developed back-end resource access functionality with Node.js for geospatial data retrieval using Agile methodology

Artificial Intelligence Policy Intern – UF Office of Federal Relations, Washington, D.C

Aug 2023-Dec 2023

- Programmed a C++ spreadsheet reorganization tool for data from 300+ healthcare locations, reducing a 3-day workload to 1
- Informed university lobbyist actions by synthesizing 100+ hours of technology-focused congressional and stakeholder meetings
- Selected as Office's first engineering intern, led correspondence to 10 Washington, D.C. interns for UF-sponsored events

Software Research Assistant - Machine Intelligence Laboratory (MIL)

May 2023-Aug 2023

- Tested autonomous machine learning robotic systems during 3 national competition preparation sessions
- Collaborated in calibrating MIL submarine SubjuGator's position and visual sensors in an aquatic environment

Data Lead and Civic Scholar – Graham Civic Scholars AI Research Program

Jan 2023-Aug 2023

- Analyzed salaries of 3,700+ AI/ML/data science jobs and presented findings at Bob Graham Center Research Symposium
- Drafted initial stages of the Spring 2023 program cohort's website data visualizations in partnership with the course coordinator

PROJECTS

Pocket Pantry (SASEhack) – Next.js, TypeScript, JavaScript, HTML/CSS, Python, Visual Studio, Figma

- Constructed an interactive front-end UI for a food database web application to help users reduce food waste
- Chosen as 1 of 9 teams to present at SASE National Convention 2023 to collegiate members and professionals

App-o-Matic – C++, Replit

- Created interface for app searches with filter options (category, rating, price, etc.) using a dataset of 21,000+ Google Play apps
- Built an app rating system based on user preferences and implemented merge and quick sort algorithms for runtime comparison
- Delegated project responsibilities to a team of 3 and led meetings to collaborate using coding collaboration web tool Replit

INVOLVEMENT

Software Engineer – Dream Team Engineering, CT GAN Team

Jan 2024-Present

- Compiled machine learning articles and resources on generative adversarial network (GAN) models in medical imaging
- Working toward end goal of a GAN that creates synthetic CT lung scans to assist UF Shands Children's Hospital COVID-19 treatment

Vice President of Finance – Chinese American Student Association

Apr 2023-Present

- Managed \$17,000+ organization budget, verified 400+ transactions for 6 merchandise sales and philanthropy fundraisers

Committee Liaison – Future of Florida Artificial Intelligence Policy Summit

Apr 2023-March 2024

- Engaged 70 students from across Florida to propose AI policy solutions in healthcare, education, etc. over a 3-day statewide conference
- Compiled statewide contact lists for outreach, refined Summit documents, created a directory of university AI resources

Project Founder, BRACE Cadet – Broward County Public Schools

Jul 2020-May 2023

- Led 2 action-based college/career readiness programs for 5 semesters with 300+ students at county/statewide meetings