Sean Cheema

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Education

University of Florida (UF) - Gainesville, FL — GPA: 4.0/4.0
Master of Science in Computer Science, Focus in Human-Centered Computing — *May 2026*
- **Coursework:** Human-Computer Interaction, Advanced UX Design, Software Engineering
- **Involvement:** Dance Marathon at UF's Web and App Development Team

Bachelor of Science in Computer Science, Certificate in Artificial Intelligence — *Dec 2024*

Skills

Languages/Frameworks: HTML, CSS, React, JavaScript, Typescript, Python, C++, C#, Java, Sax Basic, C, SQL, GoLang
Technologies: Microsoft's .NET Framework, PyQt, QtDesigner, Pandas, Tableau, AWR Scripting Environment
Software: Figma, GitHub, Miro, Microsoft Suite, Cadence AWR

Experiences

Graduate Teaching Assistant (Operating Systems) - University of Florida — *Aug 2024 - Present*
- Grading Linux-based project and homework submissions of 125 students per week
- Continuously improving a critical class in UF's Computer Science Catalog taken by over 600 students per semester

Software Engineering Intern - Northrop Grumman (NGC) — *Jun 2024 - Aug 2024*
- Crafted a GUI with **Microsoft's .NET Framework** after performing 3 user interviews throughout 2 cycles to design it
- Established backend support in **C#** to collect and distribute data for a drop test device including csv's and video footage
- Compiled semiconductor equipment data automatically impacting workflow efficiency of 5 process engineers
- Updated XML data housing material information via **Python** automation to be used by 32 mechanical engineers

Software Engineering Intern - Akoustis Technologies (AKTS) — *Jul 2023 - Feb 2024*
- Automated design report creation, reducing processing time from 2 days to 2 minutes using **PyQt**
- Developed a CSV with thousands of modeling data entries using **Pandas/Python** for database integration
- Utilized **Sax Basic** to enhance efficiency in Cadence's AWR software for Modeling Engineers by ~500%
- Rebuilt a program for generating hundreds of XML files for customer and modeling data using **Python**

Projects

Personal Portfolio Site — *Dec 2024 – Present*
- Deploying a website using Vercel that showcases my work and personality throughout my career
- Designing the interfaces using **Figma** and developing the site using **React**, **Typescript**, and **CSS**

Dance Marathon App and Website — *Aug 2024 – Present*
- Heading the UI redesign via **Figma** to improve user experience and accessibility for an app for internal DM members
- Contributing to the front end development for the deployed DM app and website using **React**, **CSS**, and **MaterialUI**
- Leveraging **Python** to automate processes to incentivize event participation for over 400 internal members

Requestify — *Aug 2024 – Dec 2024*
- Project Manager in a team of 4 to create a web-based application for requesting songs and sending tips to DJs
- Used **Figma** to create design prototypes and developed the front end architecture with **React**, **Typescript**, and **CSS**
- Harnessed Spotify and Stripe APIs with **Python** for requests and monetization and used **MySQL** for data management

TAAS Redesign — *Aug 2024 – Dec 2024*
- Managed a team of 4 to redesign a Teaching Assistant Assignment System made by UF
- Built front end architecture with **React**, **Typescript**, and **CSS** to improve the system's appearance and user experience
- Performed a formal evaluation to analyze the learnability and physical exertion of the existing and new systems
- Observed improved learnability, physical exertion, and 0% error rates across all 3 user types with the new TAAS