

Prayuj Tuli

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EDUCATION

University of Florida

Gainesville, FL

B.S in Computer Science & B.S. in Mathematics; GPA: 3.98/4.00

Aug 2021 – Dec 2024

- **Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Databases, Probability, Compilers, Software Engineering, Abstract Algebra, Number Theory, Differential Equations

Land O' Lakes High School

Land O' Lakes, FL

International Baccalaureate Program; Valedictorian - GPA: 4.81/4.00

Aug 2017 – May 2021

EXPERIENCE

University of Florida

Gainesville, FL

Teaching Assistant: COP3530 - Data Structures and Algorithms

Aug 2022 – Present

- Conducting biweekly office hours to assist students in learning course content.
- Involved in grading student coursework such as exams and projects.
- Working with professors to automate grading workflow using the Google Sheets and Canvas APIs.

KUMON

Lutz, FL

Math/Reading Instructor

Aug 2019 – April 2020

- Worked part-time during the school year helping younger kids become proficient in higher level algebra and improve their reading comprehension.

INVOLVEMENT

Open Source Club

Gainesville, FL

Technical Lead

Aug 2022 – Present

- Leading “Casual Coding” sessions to work with and assist members on open-source projects.
- Responsible for management of club’s public Git repositories.

PROJECTS

Beancount Importer

September 2022 – Present

- Automated process of tracking transactions across multiple credit/bank accounts through Plaid’s API.
- Converted transactions unified across all accounts into a format readable by Beancount’s plaintext accounting software to organize and visualize personal finances.

Subsonic Streaming

May 2022 – Aug 2022

- Self-hosted a music streaming server for personal use through Subsonic’s open-source software.
- Integrated with Apple Shortcuts’ SSH functionalities to easily use features such as adding new songs, replacing existing songs with different audio sources, and migrating public Spotify playlists.
- Utilized Subsonic’s Python API to allow for back-end communication with the music server, Spotify’s API to gather song metadata, and other libraries to properly set .mp3 file ID3 tags.

Arch Linux

Aug 2021 – Present

- Configured an Arch Linux environment from scratch to optimize work productivity through custom keyboard macros and efficient window tiling, while creating an aesthetically clean display.
- Wrote several Bash and Python scripts to personalize the environment, including adding facial recognition for PAM authentication, and offline voice recognition to control the device.
- Applied Xorg’s C++ libraries to write low-level programs to handle raw input events and synchronize with RGB lights using OpenRGB.

PROGRAMMING SKILLS

- **Languages:** C++, Python, Java, NodeJS, Bash, LaTeX, SQL
- **Technologies:** Git, Linux, Vim, Emacs, Microsoft Office

AWARDS

- **National Merit Finalist:** Scored in the 99th percentile on the PSAT
- **University of Florida Dean’s List:** Herbert Wertheim College of Engineering (2021-2022)