

# Jaxson Gauthier

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## Education

**The University of Iowa | Iowa City, IA**  
*B.S.E – Computer Science Engineering*

Anticipated May 2027  
Cumulative GPA: 3.7/4.00

## Work Experience

### Full-Stack Software Engineer Intern

May 2025 – July 2025

TrickyLeaf | Milan, Italy

- Built scheduling and reviewing system for snowboarding mentors using Node.js and role-based access, with automated SQL-backend lesson booking and feedback
- Developed IoT system enabling remote control of lights using web-interface, and real-time gate lock detection using OpenCV integrated with a RaspberryPi backend

### Engineering Ambassador

June 2024 – Present

College of Engineering | Iowa City, IA

- Host events tailored for over 2000 prospective high school students through a semester
- Act as point of resource for students looking into the engineering program

### Supplemental Instructor

June 2024 – May 2025

University of Iowa | Iowa City, IA

- Facilitated collaborative learning sessions for students to enhance their course knowledge in and Introductory to Engineering Problem Solving class
- Hosted over 50 sessions with over 100 students over the course of the semester

## Projects

### Undergraduate RA – Bioimaging & Deep Learning

November 2023 – Present

University Of Iowa, with Dr. Reinhard Beichel

- Research on quantitative PET/CT image analysis algorithms to evaluate and predict patient outcomes in head and neck cancer using TCIA data.
- Utilizing 3D Slicer to visualize volumetric imaging data and DICOM-RT structure sets in conjunction with clinical segmentations and radiomic features

### Frequent Listener

University Of Iowa, with Dr. Reinhard Beichel

- Built web app where users guess songs from progressively reconstructed FFT audio signals
- Designed PostgreSQL schema to track user stats, song analytics, and game progress across sessions
- Developed an admin interface using Spotify & YouTube APIs to search/download songs and generate FFT/Inverse FFT data

## Activities & Recognition

2nd Place in IDEA Engineering Design Project (State of Illinois)  
Electrical Engineering Undergraduate Scholar Award  
Theta Tau Omicron Professional Fraternity

May 2022  
Fall 2023 - Present  
August 2024 – Present

## Skills

Technical: Python, Office 365, C/C++, Pandas, Git, HTML/CSS, MATLAB, Pytorch, TensorFlow