

# Owen Saad

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**Active Security Clearance** - Secret and Big Safari

## EDUCATION

**Villanova University**, Villanova, PA

May 2023

Bachelor of Science in Computer Engineering; Summa Cum Laude; GPA 3.90/4.00

*Minors: Mechatronics and Computer Science*

Course Work: C++ Algorithms and Data Structures, MATLAB, Principles of Databases, Computer Architecture, Digital Electronics, Microcontrollers, Adv. Design with FPGAs, Computer Networks, American Sign Language

## TECHNICAL SKILLS

**Proficient in:** C#, Python, Full-Stack (.NET, Angular, MySQL, React/React Native), Git (Gitlab, Github, BitBucket), PowerApps, C/C++, Java, Matlab, Quartus, Agile (Scrum, Kanban, JIRA), VHDL, Microsoft Office, Fusion 360 & Inventor (Autodesk)

## HONORS/AWARDS

L3Harris Enterprise Collaboration Award (2024), L3Harris RISE Award (2023), Villanova Sports Tech Sprint - 2nd Place (2022), Tau Beta Pi (2023), Eagle Scout (2019)

## ACTIVITIES

Alpha Phi Omega (Coed Service Fraternity), Varsity Football, Varsity Lacrosse, Rec Soccer, Concert Band (Euphonium)

## ENGINEERING WORK EXPERIENCE

**Associate Software Engineer at L3Harris**

Jul 2023-Present

- **LOADR** - Full stack web application development
  - Engaging in full-stack development for an internal company web application derived from the L3Harris Software Catalog
  - Undertaking diverse tasks, including a comprehensive refactor of the API to enable the separation of the service layer for enhanced modularity.
  - Implemented a new feature on both the front and back end, to facilitate bulk data uploads, streamlining the data transfer process.
- **Federal Aviation Agency (FAA) Requirement Transfer** - Python web scraping
  - Applied Python, leveraging Beautiful Soup and Pandas libraries, to extract, manipulate, and export data from the FAA's website to CSV format.
  - Significantly reduced company workload by saving the company a minimum of 400 hours of initial work and 60 hours monthly through script automation for requirement updates.
  - Established a streamlined process, eliminating the need for manual verification of each requirement's status, enhancing efficiency and accuracy.
- **L3Harris Software Catalog** - PowerApps
  - Developed a comprehensive software catalog for the company, enabling seamless sharing of internally created software.
  - Individually initiated the project with only a visual concept provided on a PowerPoint slide.
- Member of a remote team utilizing Microsoft Teams and JIRA, a tool for agile software development.

**L3Harris Software Engineer Intern**

May 2022-Jul 2022

- Collaborated with software and system engineers to develop a classified electronic warfare component
- Designed a Python GUI to help with debugging software while running on the hardware
- Completed debugging tasks within the C++ code base

## ACADEMIC EXPERIENCE

**Senior Design Project (VR Goalie Training)**

Apr 2022-May 2023

- Develop a Virtual Reality application for soccer goalies to practice defending penalty kicks
- Built the environment, ball animation, and kicking animation on Unreal Engine

**Teaching Assistant**

Jan 2023-May 2023

- Graded and held office hours for third-year level Computer Networks Course
- Supported instructor and answered student questions in class and practicum for first-year engineering projects course

**Villanova Engineering INNOVATE: The L3Harris Summer Program**

Jun 2021-Jul 2021

- Designed a transparent speech to text visual display device for individuals with auditory impairment
- Utilized a Raspberry Pi, 3D printing, and an open source speech to text deep learning model
- Multi-Disciplinary Team four-person team - presented to CEO of L3Harris

## PRE BACHELORS EXPERIENCE

Landscaper (Fraleighs), Cashier (Bryn Mawr Beverage, Meijer), Warehouse Worker (Zingerman's), Food Service (Brugger's Bagels), Camp Counselor (Wide World Sports Center), Flag Football Coach (Wide World Sports Center)