SIMAL SAMI

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EDUCATION

Bachelor of Information Technology, University of Scranton — Expected 2024
Minor in Computer Science, **Concentration** in Integrated Data Analysis — GPA 3.66
Relevant Coursework: Network Security, Data Structures & Algorithms, System Administration

Awards Honors: NSF-S-STEM Scholarship, Magis Honors Program in STEM, Royal Scholars Program, Faculty-Student Research Program, Leadership Capstone

SKILLS

Technical Skills: Python, SQL, Java, CSS, JavaScript, HTML, Linux, Network Security, TCP/IP, Wireshark
Certification: FCC Federally Licensed Amateur Radio Operator, RCR for Biomedical Investigators

EXPERIENCE

Student Government Director of Technology — August 2022 - Present
University of Scranton — *Scranton, PA*

- Appointed as student liaison to advocate for university offices on matters relating to student technology use.
- Serve as a key resource relative to club management software by supporting updates or transitions related to the system, as well as training faculty staff and students.
- Led cyber safety initiative to increase cyber threat awareness and safety amongst students.

IT Infrastructure Intern — Summer 2022
University of Scranton IT Department — *Scranton, PA*

- Worked with Network Sub-team on a campus-wide network life-cycle upgrade project.
- Replaced, installed, and configured all wireless access points, network switch equipment, and telecommunication devices in campus buildings.
- Worked with Information Security to implement response plan for various types of threats and cyber-attacks.

Technical Consultant — Jan 2021 - Present
University of Scranton — *Scranton, PA*

- Provided support for faculty and end users by responding to phone and email requests for service.
- Maintained University websites and department web pages with updated information as needed.
- Designed comprehensive instructional manuals to help end-users navigate instructional software

PROJECTS

Towards Developing an Algorithm for the Separation of Transmitters of High Frequency Chirp Signals of Opportunity for the Purpose of Ionospheric Sounding I am currently conducting deep space and ionospheric research funded by The National Science Foundation to support its Distributed Array of Small instruments (DASI) Personal Space Weather Station (PSWS). I am working towards developing an algorithm which can load, analyze, identify, and plot received data signals from a Chirp sounder radio receiver utilizing python and various data visualization software. Ultimately, this project will aid in our understanding of how the ionosphere impacts radio wave propagation.

EXTRA-CURRICULAR ACTIVITIES

Treasurer, University of Scranton W3USR Amateur Radio Club

- Oversee all financial transactions and fundraising efforts going in or out of yearly club allocations.
- Budget and plan for all club events to increase interest in amateur radio amongst campus community.