Jack Arens

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Education

University of Nebraska-Lincoln   Expected Graduation: December 2021

Jeffrey S. Raikes School of Computer Science and Management   GPA: 3.94

- Highly selective honors program focused on computer programming, business strategy, and effective leadership
- Bachelor of Science in Computer Engineering with minors in Business and Mathematics
- Relevant Courses: Data and Network Security, Software Security, Cybersecurity Law, Software Engineering, Business Strategy

Work Experience

Lead Embedded Systems Engineer *(Lincoln, NE)*   November 2020 – Present

University of Nebraska-Lincoln and the National Strategic Research Institute

- Designed an embedded systems architecture for data intake, transmission, and aggregation using mid-range RF and TAK Maps.
- Coded a low-level, interconnected, memory sensitive solution for running on an ATMega 2560 microprocessor in C++.
- Worked on a project with sensitive data concerns that required secure information handling techniques.
- Generated air particle count diagrams for Boeing aircraft as part of a COVID-19 research study sponsored by the DoD.

Cyber Architecture Intern *(Remote to Phoenix, AZ)*   May 2020 – August 2020

Honeywell International Inc.

- Wrote, presented, and published a security architecture model on Azure Government Cloud Computing for corporate use.
- Reviewed security service requests for Honeywell teams and products to ensure compliance with secure practices.
- Prepared a security position statement on the topic of homomorphic encryption for the enterprise security library.

Cyber Systems Intern *(Annapolis Junction, MD)*   May 2019 – August 2019

Northrop Grumman Corporation

- Contributed to a back-end Java program for detecting conflicting cyber and air missions for mission planners.
- Built a front-end solution in JavaScript for viewing cyber resources and their association along with vulnerability levels.

Cyber Systems Intern *(Herndon, VA)*   May 2018 – August 2018

Northrop Grumman Corporation

- Developed and deployed tools for cataloging and displaying project outcomes for internal users with Microsoft SharePoint.
- Researched cutting-edge technologies for possible integration into project workflow for R&D teams.

Projects

Product Recommendation Engine *(Lincoln, NE)*   August 2020 – Present

The Buckle, Inc.

- Coordinated team schedules, prioritized project features, and was the main contact as Project Manager for a team of five.
- Oversaw the development of a neural network product recommendation engine for use across Buckle's operating domain.

Interactive Analytics Dashboard *(Lincoln, NE)*   August 2019 – May 2020

Nelnet – PaymentSpring

- Served as the Development Manager for a team of six colleagues working on a corporately sponsored project.
- Led the development of a full-stack, containerized data processing and analytics dashboard for credit card transaction fees.

Extracurricular Activities

Phi Kappa Theta Fraternity *(Nebraska Pi Chapter)*   August 2017 – Present

- Served as Nu Class Judicial Council Representative and Chapter Secretary, assisting in leading a fraternity through the pandemic.
- Oversaw the transition of our internal web portal to a Google Cloud hosted Moodle instance for financial savings and efficiency.

Campus Recreation Advisory Council *(Lincoln, NE)*   April 2018 – May 2020

- Held a position on the governing council for the University of Nebraska-Lincoln's campus recreation facilities.
- Chaired two subcommittees focused on Outdoor Recreation and Technology/Marketing.

DefCon and InfoSec Group *(Severn, MD)*   May 2019 – August 2019

- Participated in community capture-the-flag events at a local hacker space.
- Attended speakers presenting on digital forensics, penetration testing, and information security.

Programming: C, C++, C#, CSS, Docker, Git, HTML, Java, JavaScript, Python, SQL (Proficiency) and MySQL/PHPMyAdmin, PHP (Familiarity)

Certifications: DoD Top Secret Clearance