

# Nahid Kalam

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## EDUCATION

### Syracuse University

Bachelor of Science in Computer Science, *cum laude*

Syracuse, NY

May 2025

**Relevant Coursework:** Data Structures, Algorithms, Computer Organization and Systems Programming, Software Specification and Design, Object Oriented Programming, Artificial Intelligence, Virtual Reality, Software Implementation, Operating Systems, Robotics Programming (with ROS2)

## TECHNICAL SKILLS

**Programming:** Java, Python, C/C++, C#/.NET, JavaScript, TypeScript, SQL, HTML/CSS, R

**Frameworks & Libraries:** Spring Framework, ReactJS, Node.js, Angular, Flask, Firebase, Chart.js, ROS2

**Tools:** Agile/Scrum Methodologies, Git, IntelliJ IDEA, Eclipse, Visual Studio Code, Linux (Lubuntu), Unity, RStudio

## EXPERIENCE

### Mary Ann Shaw Center

Leadership Intern - STEM Initiative

Syracuse, NY

January 2023 - Present

- Develop and execute innovative computer science and IT lesson plans, impacting the technology proficiency of over 100 high school and elementary students.
- Facilitate hands-on learning experiences by utilizing cutting-edge technology and multimedia resources to enhance student engagement and comprehension in CS and IT topics.
- Lead and mentor a dynamic team of 15 volunteers, optimizing their involvement in delivering educational content and providing assistance to students of varying age groups.
- Record student feedback, coordinate weekly sign-ups, manage transportation rosters, and compile reports to support program logistics and improvement.

### S.I. Newhouse School of Public Communications

Technology Specialist (Labs/Edit Suites)

Syracuse, NY

August 2024 - Present

- Oversee daily operations of labs and edit suites, ensuring proper organization, cleanliness, and equipment functionality.
- Troubleshoot low to medium-level technical issues and maintain WordPress websites for content providers.
- Handle help desk inquiries, creating detailed tickets for technology-related issues and ensuring timely resolution.
- Assist with technical support at the CAGE, contributing to equipment management and user support.

### JPMorgan Chase & Co.

Summer Intern - Emerging Talent Program

New York, NY

July 2021 - August 2021

- Engineered comprehensive data reports by integrating multiple SQL databases, enabling engineers to optimize application performance and reduce downtime by 15%.
- Developed and deployed a robust data validation program that autonomously detects and reports table inconsistencies, accelerating bug resolution by 25% and enhancing system reliability.
- Leveraged expertise in multiple programming languages and developer tools to conduct advanced data analysis, uncovering key trends that informed strategic decisions and contributed to a 20% improvement in user engagement metrics.

## PROJECTS

### ProcastNo | Website

ReactJS | ChartJS | Firebase | JavaScript

- Built a Pomodoro timer with user authentication, custom intervals, and productivity tracking.
- Developed a user-friendly React interface with Firebase backend and visual analytics using Chart.js.

### Virtual Reality Basketball Game | Virtual Reality

C# | Unity | META XR SDK

- Developed immersive VR court with full motion input and realistic ball physics.
- Created environment tracking and scoring mechanics with precise controller mapping.

### Autonomous Search and Rescue Robot | Robotics Programming Lab

ROS2 | Python | Computer Vision

CSE 400 - Robotics Programming

Spring 2025

- Programmed a ROS2-based robot to detect AprilTags, navigate, and return tagged objects autonomously.
- Implemented nodes for navigation, tag detection, TF localization, and coordinated retrieval.

## ACADEMIC & LEADERSHIP INVOLVEMENT

Student Advisor, CIS 400: Intro to Virtual Reality

2024-2025

Treasurer, Kappa Theta Pi (Tech Fraternity)

2024-2025

Academic Tutor, CLASS Learning Center

2024-2025

Winner, Deloitte Consulting Apprenticeship Program (DCAP)

Spring 2024