

Avikar S. Khakh

khakas22@wfu.edu • (516) 673-8568

<https://github.com/AvikarKhakh> • <https://www.avikarkhakh.com/>

EDUCATION

Wake Forest University, Winston-Salem, NC

May 2026

Bachelor of Science in Computer Science; Minor in Economics

Spoken Languages: Fluent in English; Working knowledge of Spanish (oral and written); Understanding of Punjabi (oral)

Relevant Coursework: Micro/Macro Economics, Fundamentals of Computer Science, Calculus with Analytic Geometry II, Discrete Mathematics, Computer Systems, Data Structures and Algorithms, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, React, JavaScript, C, R, MIPS Assembly

Data/Analytics: RStudio, Excel, API Integration

Tools & Environments: IntelliJ, Visual Studio, RStudio, Linux, Tailwind CSS

Concepts: Algorithm Design, Data Analysis, Object-Oriented Programming, Recursion, ArrayLists

Interests: Data Visualization, Analytics, Cloud Platforms (GCP), Financial Markets

PROJECTS

XRP Robotics, *Project Lead*

- Assembled and programmed 5 XRP robotic kits using Python to autonomously follow a spontaneous line and have obstacle detection; Utilized ultrasonic and reflectance sensors for real-time navigation; refined accuracy by 30% through sensor tuning and test loops

Authoring Assistant, *Project Lead*

- Developed a Java based authoring tool with user-customizable text formatting features using ArrayLists and StringBuilder; Enabled real-time preview and editing for input of up to 1,500 characters

LEADERSHIP EXPERIENCE

Robotics Organization, *President*

Winston-Salem, NC, *Fall 2024 – Present*

- Engineered software for XRP robotics competitions using Java and Python; improved robot pathfinding by 30% using real-time sensor data and if-else logic structures
- Facilitated the planning and execution of events, including competitive tournaments and community outreach programs; oversaw the coordination of club activities, along with budgeting and managing financial responsibilities

Old Gold and Black Newspaper, *Writer*

Winston-Salem, NC, *Fall 2022 – Present*

- Composed 10 analytical and engaging articles on school sporting events and in-depth analyses using research and statistical information, often comparing team and player performance metrics, under tight deadlines

Campus Kitchen, *Volunteer*

Winston-Salem, NC, *Fall 2023 – Present*

- Collaborated with teams of 3-4 to efficiently prepare, package and distribute 30-35 meals weekly to individuals in need, exemplifying a strong commitment to community service and teamwork while addressing food insecurity

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co., *Software Engineering Virtual Experience (Forage)*

Remote, *Spring 2025*

- Completed a 4 task micro-internship simulating real JPMorgan workflows, improving backend services in a Spring Boot microservices architecture
- Integrated Apache Kafka to stream and deserialize over 500 mock financial transactions in real time, ensuring 100% delivery accuracy using embedded test environments
- Improved system throughput by approximately 25% via restructuring of service logic and more efficient data handling within Kafka consumer modules

JD Sports, *Associate*

Garden City, NY, *June 2024 – September 2024*

- Cooperated in small teams to assist with maintaining efficient inventory management techniques, which improved overall store performance
- Utilized digital inventory systems to manage 100+ SKUs daily, improving stock accuracy and customer satisfaction

New York Beach Club, *Assistant*

Atlantic Beach, NY, *May 2023 – September 2023*

- Provided superior customer service to more than 45 families, managing all aspects of guest satisfaction in a fast-paced beach club environment
- Collaborated with two other people to manage guest services covering an eight acre facility and beachfront