

# Kal Gilliam

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## EDUCATION

### NEW JERSEY INSTITUTE OF TECHNOLOGY

Newark, NJ

*Bachelor of Science*

2020 - 2024

*Major in Computer Science; Minor in Business*

Cumulative GPA: 3.35; Dean's List 2021-2024

Relevant Coursework: Data Structures & Algorithms, Guided Design in Software Engineering, Database System Design & Management, Computer Networks, Computer Systems, Cybersecurity, Cryptography & Internet Security, Data Science, Artificial Intelligence, Operating Systems, Intensive Programming in Linux, Internet Applications, Project Management

## TECHNICAL SKILLS

Python, Java, C/C++, Kotlin, Shell Scripting, React, HTML, JavaScript, CSS, PHP, SQL, ASM, Linux, Git, Figma, Microsoft Office

## WORK EXPERIENCE

### CAR CARE BY MOTOR

Newark, NJ

*Front End Developer*

May 2024 – Present

- Designed and prototyped the CarCare app interface using UX/UI principles, focusing on user-friendly interactions between drivers and mechanics
- Developed front-end features with React Native, JavaScript, HTML, and CSS, including user profiles, mechanic connections, and appointment scheduling
- Integrated cybersecurity measures and secure authentication protocols such as data encryption to ensure user data protection

### NJIT LIFE SCIENCES MOTION CAPTURE LAB

Newark, NJ

*Undergraduate Research Assistant – Software Engineer*

May 2023 – May 2024

- Led the development of the ExoCoach smartwatch application for stroke patients using Android Studio, Java, and Kotlin, integrating a custom API to access exoskeleton data
- Utilized Samsung and Google's Health API to track physical activity metrics - steps, walking distance, walking speed - and health measures - heart rate - to measure patient progress and monitor exoskeleton function parameters - leg assistance levels, knee angles, battery life
- Assisted PhD and graduate students in human movement and sports performance research, recruited and conducted motion capture experiments, and evaluated human performance, contributing to injury prevention strategies

### NJIT YING WU COLLEGE OF COMPUTING ACADEMIC ADVISING

Newark, NJ

*Office Assistant*

May 2022 – May 2024

- Provided for and assisted the 4,641 students across YWCC's Jersey City and Newark locations, serving as a liaison between students and academic advisors and directing them to appropriate resources
- Analyzed student logistics data using Python and Pandas, enabling informed decision-making processes within the office
- Managed media for the advising office, performed clerical duties within the office, and collaborated with the Dean's office to support academic operations
- Actively participated in events, summits, open houses, and orientations, representing the advising office and assisting both incoming and current students

## PROJECTS

### PEQUANNOCK DEMOCRATIC COMMITTEE WEBSITE

*Webmaster*

September 2024 – Present

- Leading the redesign and modernization of the committee's WordPress website, integrating new graphic elements and enhancing overall user experience
- Implementing updates using WordPress and PHP, focusing on improved site navigation, responsiveness, and accessibility
- Managing ongoing site maintenance, including content updates, plugin management, and security enhancements, ensuring a seamless and secure platform

### NOURISHNET

*Project Manager*

February 2024 – May 2024

- Designed and developed a dynamic food analysis web application using React JS, seamlessly integrating OpenAI's GPT-4 API for comprehensive nutritional analysis, dietary recommendations, and personalized recipes including selected food items
- Implemented an advanced text recognition feature using optical character recognition to allow users to input food items, which the application then searches in the USDA's FoodData Central database - allowing us to provide users with accurate breakdowns of calories, macronutrients, and concise health ratings

## ACTIVITIES & ACHIEVEMENTS

Google Developer Student Club, Association of Latino Professionals For America, Morris County Democratic Committee District Chair Member, American Legion Jersey Boys State Delegate & Election Board Official, NJIT YWCC Convocation Representative