# RITHVIK SRIRAM

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**https://tinyurl.com/RithviksLinkedin**

## EDUCATION

**Rutgers University–New Brunswick** *September 2022-May 2025*
*Expected*

**West Windsor - Plainsboro High School North** *September 2018 - June 2022*
*Academic Honors: National Honors Society* *GPA: 4.6*

## TECHNICAL PROJECTS

**NJTransitOP,** *TrainOP*
- A surveillance system developed for trains to attempt to stop crimes and maintain cleanliness, improving the overall commuting experience for passengers
- Catches indications such as the flash of any type of weapon or spill of liquids trained by Google Auto Machine Learning
- Google Vision API helps recognize anything the model was trained to look for and immediately alerts the conductor using the Twilio API
- The surveillance system implemented in trains detects and categorizes threats based on severity levels, with level 1 threats like spills triggering text alerts to the conductor, while level 2 threats like crimes prompt immediate action with both call and text notifications sent to the conductor, ensuring swift response and maintaining a safer environment for passengers.

**Alexa API,** *Srivari Calendar*
- Developed an Alexa skill that stores a specific "auspicious" calendar allowing users to effortlessly access and receive accurate information about auspicious dates
- When prompted by user, Alexa will respond accordingly with the next occurrence of the requested auspicious day

**Huffman Coding**
- An efficient data compression algorithm enabling streamlined representation of information such as text files, leading to enhanced storage efficiency, faster data transmission, and reduced resource requirements, ultimately resulting in optimized data handling and accessibility.

**RU Kindergarten**
- The RU Kindergarten project serves as a valuable tool for teachers, offering a virtual platform that facilitates efficient organization of activities and optimizes classroom management, ultimately easing the burden of planning and enhancing the overall effectiveness of teaching in a kindergarten setting.
- It simulates the students standing in a line, the students on their seats, and the students playing musical chairs.

**Event Reminder**
- Constructed a program for automatic notifications on a participant's birthday ensuring that devotees receive blessings from the local temple on their special day while streamlining the coordination process for the temple priests.
- Priest at the local temple are sent automatic notifications to perform a specific religious ceremony to provide blessings to the devotee on their birthday

**GPA Calculator**
- Created a GPA calculator using JavaFX to simplify GPA calculations for students within the West Windsor - Plainsboro Regional School District
- Calculator provides weighted and unweighted GPA calculations with minimal inputs from the user

**Github Projects: https://tinyurl.com/RithviksProjects**

## WORK EXPERIENCE

**Code Ninjas,** *Coding Instructor* **May 2020 - June 2023**
- Teach and mentor 50+ students of ages 7-15 in programming languages including micro bits, javascript, and html
- Collaborate and coordinate with other mentors

## LEADERSHIP/VOLUNTEER EXPERIENCE

**USACS Rutgers** **2022 - Present**
- USACS Rutgers is a vibrant community of like-minded explorers who collaborate and discuss current computer science topics encouraging research and learning

**SriVari Sri Balaji Temple,** *Volunteer* **2013 – Present**
- Volunteered 65+ hours
- Helped in fundraising, participated in cultural events and competitions, and programmed automatic applications to ease the work of administrators

**West Windsor-Plainsboro Education Foundation Youth Committee,** *President* **2014 – June 2022**
- Roles: Co-President *(2021-2022)*, Co-Vice President *(2020-21)*, Secretary *(2019-20)*, Technology Chair *(2018-19)*
- Played an active role in the organization from recruiting members, fundraising, organizing volunteering at the NJ Triathlon, starting a food drive for essential workers during the pandemic

## SKILLS/AWARDS

*Technical:* **Basic:** HTML, Micro Bits **Intermediate:** Javascript, Machine Learning, APIS, AWS **Advanced:** Java, Python
*Languages:* English, Spanish, Tamil
*Awards*: Presidential Volunteer Service Award (Gold), Top 35 Fencer in State Individual Tournament in NJ