

Danica Chakroborty

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ

Bachelor of Science in Software Engineering

Anticipated Graduation: May 2027

Awards: Edwin A. Stevens Scholarship, Martha Bayard Stevens Scholarship, Presidential Scholarship

Coursework: Intro to Programming & Algorithmic Thinking, Intro to Engineering Design & Systems Thinking, Differential Calculus, Integral Calculus, General Chemistry, Writing and Communications Colloquium

North Hunterdon High School | Annandale, NJ

June 2023

Awards: High Honor Roll, RIT Computing Medal and Scholarship, Principal's Award for Leadership

SKILLS

Software: MS Office: Word, Excel, PowerPoint, SolidWorks

Certifications: CPR and First Aid Certified, Emergency Oxygen Administration Certified

Programming: *Basic:* Java, C++ (*familiar*), Python (*familiar*)

Languages: *Speaking ability* in Bengali, Hindi, *Speaking, reading, and writing ability* in Spanish

Projects

REACT Native Calculator

- Developed a fully functional calculator application using React Native, showcasing proficiency in mobile app development.
- Implemented robust, stable, and maintainable code bases in React, ensuring optimal performance and ease of future enhancements.
- Leveraged various JavaScript libraries to efficiently create calculator codes and components, demonstrating adaptability and resourcefulness in problem-solving.

Self Watering Plant Pot

- Employed SolidWorks to meticulously sketch and design the prototype, demonstrating proficiency in CAD modeling.
- Executed precise 3D printing of the designed parts, ensuring accuracy and functionality in the physical prototype.
- Implemented Arduino programming to code sensors, enhancing the pot's capability to monitor and maintain the optimal amount of sunlight for plant growth.
- Ensured real-time data acquisition and responsiveness through sensor integration, contributing to the pot's efficiency in plant care.

WORK EXPERIENCE

YMCA | Flemington, NJ

Aquatic Supervisor

June 2021- August 2023

- Utilizing a combination of digital and in-person channels, effectively communicated with parents, staff, and swimmers to meticulously plan and oversee weekly and monthly swim lessons
- Demonstrated exceptional organizational skills by creating comprehensive lesson schedules and detailed pool maps for each hour of lessons

YMCA | Flemington, NJ

Lifeguard & Swim Instructor

June 2019 - August 2023

- Demonstrated swift and effective response during emergencies by administering first aid, CPR, and oxygen as necessary, offering critical support to children and adults in distress
- Maintained a vigilant watch over up to 40 swimmers per hour
- Instructed a diverse range of swimmers from adults to babies to foster their swimming proficiency and water safety awareness