Zahin Chowdhury

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EDUCATION

South Brunswick High School, Monmouth Junction, NJ   *June 2025*

GPA: 3.9375 W

Relevant Coursework: AP Physics C: Mechanics, AP Physics C: E&M, AP Calculus AB, AP Computer Science A, Mobile Application Development, Virtual Reality & Game Design, AP Statistics

SKILLS

Programming Languages: *Advanced Java/C#, Intermediate C/Python, Beginner C++/Dart*
Languages: English and Bengali
Software/Platform: Unity, Microsoft Visual Studio Code, Android Studio, PostgreSQL, Flutter, Autodesk, *Express.js, Node.js, Intellij IDEA, Postman*

EXPERIENCE

VEX Robotics, Kendall Park, NJ   *February 2024- Present*
750S Captain/Lead Designer
- Evaluated the design and development of innovative robotics solutions, leading a team of 15 members to secure top 3 positions in regional competitions and aiming for national level success.
- Optimized project timelines and resource allocation, and utilized AutoCAD to develop precise designs for the robot, resulting in a 80% increase in efficiency.
- Facilitated weekly training sessions on robotics programming and engineering concepts such as PID and C++, improving team knowledge and performance by 30%.
- Mentored 10 junior members, fostering a culture of continuous learning and teamwork, which contributed to a 40% increase in team cohesion and motivation.

PROJECTS

Islamic Life   *May 2024* - Present
- Developed a comprehensive website designed to help children and adults connect with Islam, enhancing their faith through interactive content and resources, resulting in a 30% increase in user engagement.
- Maintained a scalable website using Node.js, Express.js, and PostgreSQL, while enhancing user experience with intuitive interfaces and seamless navigation through HTML, CSS, and JavaScript, leading to a 25% increase in session duration.
- Collaborated with 10 local religious scholars and educators to curate simple and accurate content, ensuring the relevance of information provided.
- Optimized website performance through regular updates, resulting in a 22% reduction in load times

Tracer   *October 2023* - Present
- Developed a mobile app to function as a tracker for school buses, helping over 500 students know when to leave their houses for regular use and inclement weather.
- Built using Flutter and programmed in C, ensuring cross-platform compatibility and efficient performance on both Android and iOS devices, achieving a 20% increase in app stability.
- Integrated real-time GPS tracking/geo-coding and notification features, providing up-to-date information on bus locations and estimated arrival times, resulting in a 35% improvement in user satisfaction.
- Collaborated with 15 school administrators to gather requirements and feedback, ensuring the app meets the needs of all stakeholders effectively, leading to a 25% increase in adoption rates.

HONORS AND AWARDS

- AP Scholar with Honor: Average score of at least 3.25 on four AP exams taken that year   *May 2024*
- Top 10 Finalist Data Analysis   *March 2023*
- Mega Hackathon Finalist   *December 2022*