

Steve Nathan de Sa

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EDUCATION

South Dakota Mines

Rapid City, SD

B.S. Computer Science [GPA: **3.92/4.00**]

Expected Graduation: May 2026

- **Specialization:** Artificial Intelligence and Machine Learning.
- **Coursework:** Software Engineering, Data Structures & Algorithms, Database Management, Programming Techniques, Test Driven Software Development, Digital Systems, ARM64 Assembly, Discrete Mathematics.

WORK EXPERIENCE

Software Engineering Intern

November 2023 - Present

Caterpillar MineStar Consortium, SDSMT

- Crafted and Deployed Dynamic Apps and Dashboards, leveraging API integration for Enhanced Functionality.
- Collaborated with Executives worldwide, ensuring tailored Software Solutions aligned with Customer Requirements.

Front-end Web Developer

May 2023 - Present

South Dakota Mines

- Edited and Maintained University Web Pages, ensuring Accuracy, Clarity, and User-Friendliness.
- Elevated the Collective Online Experience for a User Base exceeding 10,000+ Students, Parents, and Staff Members.

LEADERSHIP EXPERIENCE

Brand Ambassador - Robotics

June 2016 - May 2017

Vibrant Skill Set Solutions

- Inspired and Motivated Enthusiasts to pursue STEM and build Robotic Projects using Embedded Systems.
- Improved Robotics and Programming Workshop Curriculum to Optimize Learning and Problem-Solving Outcomes.

PROJECTS

Portfolio Website | HTML, SCSS, JS, Node.JS, React.JS, Three.JS, Framer Motion

- Developed a Dynamic and Visually Appealing Personal Portfolio Website using a Full-Stack Technology.
- Implemented a Creative User Interface, ensuring a Seamless User Experience, showcasing Web Dev Proficiency.

Game of War | C++, OOP, Stacks, Queues

- Simulates the Classic Card Game of War by Allocating 52 random, non-recurring Cards to each Player.
- Determines the Winner based on the Player with the Highest Card Count after playing through the entire deck.

Automated Home Assistant | Python, C, Arduino, Wemos D1R1, Raspberry Pi, MQTT

- Features Home Automation: Control Appliances Remotely using the Assistant app or by using Voice Commands.
- Integrates a Voice Assistant with the ability to leverage the Internet to answer a diverse range of questions.

TECHNICAL SKILLS

Programming Languages: Python, C, C#, C++, HTML, CSS, JavaScript, SQL, R, Java

Technologies & Frameworks: .NET, Next.JS, Node.JS, React, Django, Flask, MongoDB

Developer Tools: AWS, Git, Visual Studio, MySQL, PyCharm, CLion, IntelliJ, RStudio, Power BI

CERTIFICATIONS

Android App and Game Development | Design and Development of Embedded Systems and Robotics | Advanced Robotics based on AVR and Raspberry Pi | Design and Development of IOT | Advanced MQTT Automation and IOT | Fullstack Web Development | Foundational C# [Microsoft]

EXTRACURRICULARS & ACHIEVEMENTS

Member: Application Development Club, Data Science Club, Society of Hispanic Professional Engineers [SHPE], Cultural Expo [Secretary], India Club [Technology Coordinator].

Fomento Scholar, Winner of numerous Robotics Competitions, Dean's List Recognition.