Erik Svanes

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EDUCATION

B.S., Computer Science – Artificial Intelligence Concentration   **GPA: 3.953**
North Caolina State University | Raleigh, NC

SKILLS

Languages: Java, Python, C, SQL, C#, PHP, HTML, JavaScript, CSS, Angular
Tools/Skills: Git Branching, React, Chakra UI, JUnit, Salesforce, Agile, Peer Programming

EMPLOYMENT & EXPERIENCE

North Carolina State University   **May 2024 - Present**
Research Experience for Undergraduates
- Trained a Deep Reinforcement Learning ML model to competitively drive a 1/10 scale F1 race car
- Researched emerging solutions for the ongoing challenge of sim-to-real vehicle model transfer
- Explored various sim-to-real methods and decreased the crash rate to 0/6 trials in real-world testing

Xylem Water Solutions   **August 2023 - May 2024**
Technical Support Intern
- Performed hardware and software troubleshooting issues for water metering systems
- Developed effective problem-solving skills while resolving technical issues directly with customers
- Managed and maintained an overall customer satisfaction above 98%

Green Hope High School   **July 2024 - Present**
Marching Band Instructor
- Lead 100+ high school students in visual and musical skills to help them excel in competition
- Worked directly with the Band Director, the top Brass instructor in the region, and section leaders

PERSONAL PROJECTS

HackNC 2024 Hackathon   **November 2024**
- Collaborated with a team of 3 members to develop a full-stack web application during HackNC
- Designed and implemented a responsive user interface using React and Chakra UI
- Demonstrated adaptability and problem-solving skills in a time-constrained competition setting

CoffeeMaker Web App   **January 2024 - May 2024**
- Utilized Agile methodology to collaborate on improving a full-stack project
- Created API endpoints with the Spring Framework along with Java, SQL, JavaScript, HTML, and CSS
- Implemented Web Sockets for real-time order status updates, improving customer satisfaction
- Leveraged MySQL tables for data management and manipulation, enhancing decision-making

ACTIVITIES

Hack_NCState Hackathon Committee   **November 2022 - May 2024**
- Serve as a Co-Software team lead of the leadership team for the Hack_NCState Hackathon
- Helped with planning and execution of the Software group while communicating with logistics
- Manage the website, Devpost, Hacker Guide, and Discord server to ensure that the Hackathon was run smoothly and successfully

Band Programs   **August 2021 - Present**
- Play the French Horn and performed multiple solos at NC State Wind Ensemble Concerts
- Performed solos with the Wind Ensemble at the Royal College of Music in London, UK
- Played the Mellophone at NC State sporting events