

# Arika Khor

Software Developer with a focus on back-end and interest in CD/CI development.

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## Education

Expected B.S. Graduation 2026, M.S. 2027	<b>The University of Oklahoma</b> B.S. / M.S. Computer Science
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## Technical & Soft Skills

- Programming: Advanced Java (Spring, Thymeleaf), C++, C#, JavaScript, Python
- Web: LaTeX, HTML5, CSS3, Bootstrap, Azure, AWS, SQL, MongoDB, Bun JS, React, WebRTC Concepts
- Tools & Concepts : ROS2, Pub/Sub Architecture, Docker, Jira, Jenkins, Git, Microsoft Office Suite, Agile, Scrum.
- Soft Skills: Leadership, Interdisciplinary Teamwork, Communication, Problem Solving, Project management.

## Projects

Aug 2024 - Current	<b>Sooner Competitive Robotics</b> <i>Member</i> <ul style="list-style-type: none"><li>· Setup and managed Docker environments enabling team members to work on the project on any machine, reducing onboarding time by 35% and immensely easing the process of adding new dependencies.</li><li>· Overhauled the UI, moving to React, Bun JS, and Bootstrap for a quicker and smaller UI.</li><li>· Overhauled the data transfer from web socket to WebRTC requests using aiortc and aiohttp rapidly speeding up the data transfer protocols (including video latency) from ROS nodes to a webserver using a pub-sub design.</li></ul>
Aug 2022 - Present	<b>FFXIV-Wiki-Fetcher</b> <i>API Creator</i> <ul style="list-style-type: none"><li>· Well documented REST API Webservice where users could create custom queries for several items with data which was returned in a JSON format.</li><li>· Web scraper that formats, normalizes, and stores data in a csv file.</li><li>· Implemented fuzzy search for user queries which returned items that shared the most similar zones to the other items queried.</li><li>· Used Spring framework to create the REST API for return calls in JSON.</li></ul>

## Work Experience

Sept 2022 - July 2024	<b>Singapore Armed Forces</b> <i>Team Lead for Curriculum Development</i> <ul style="list-style-type: none"><li>· Lead a team through developing and maintaining critical systems for Cadet and trainee scoring using AGILE methodologies.</li><li>· Performed data analysis on Cadet scores using pandas with data that was later presented in a senior management meeting.</li><li>· Led a project to develop code to migrate from obsolete excel sheets that was used in trainee scoring.</li></ul>
Jan 2020 - Dec 2020	<b>GameDuchy Gaming Development Company</b> <i>Assistant Community Relations Manager</i> <ul style="list-style-type: none"><li>· Planned, organised and executed regular in-game community wide events, working with various departments to successfully implement these events.</li><li>· Designed and implemented custom chat bot to obtain item data for the official Discord server.</li></ul>

## Leadership Experience

Aug 2016 - May 2022	<b>Scouting America</b> <i>Several Leadership Positions</i> <ul style="list-style-type: none"><li>· <b>Eagle Scout Project:</b> My Eagle scout project was to provide a reliable way to get weather updates. I designed a weather radio antenna and organized a large group to mass-produce these antennas. These were given to the city's emergency coordinator to distribute to public service buildings. This project was covered in the norman transcript (article <a href="#">here</a>).</li><li>· Led several classes as a troop instructor, and served as senior patrol leader (troop head) for one term.</li></ul>
Aug 2024 - Current	<b>Sooner Competitive Programming Team</b> <i>Team Captian</i> <ul style="list-style-type: none"><li>· Helped organise ICPC regionals at OU.</li><li>· Covered a variety of Competitive Programming topics ranging from Graph Algorithms to Amortized analysis.</li></ul>