

# JAKOB STICKLES

Seattle, WA | (425) 791-5463 | sticks@uw.edu  
students.washington.edu/sticks | github.com/crypticstick

## EDUCATION

**University of Washington** (Seattle, WA)

June 2024

Bachelor of Science In Computer Engineering

UW Washington State Academic RedShirt (STARS) Program Alum

## EXPERIENCE

**Junior Software Administrative Engineer, TPR Education, LLC** (Remote) June 2022 - Present

- ❖ Working with a team to enhance Tutor.com's services.
- ❖ Using full-stack technologies to improve site accessibility and implement new features.

**InfoTech Intern, Everett Community College** (Everett, WA) July 2020 - September 2020

- ❖ Assisted the IT department with the inventorying and organization of surplus equipment.
- ❖ Researched and presented cybersecurity topics such as multi-factor authentication for staff and students.

**Lead Programmer, FIRST Robotics Team** (Arlington, WA) September 2016 - June 2020

- ❖ Developed Java robot code and maintained system electronics.
- ❖ Explored and implemented various computer vision technologies such as GRIP, AI Object Detection, and SLAM, helping the team to win its first Autonomous Award in 2019.
- ❖ Delegated tasks to a small team of programmers and provided Java training for new members.

## TECHNICAL QUALIFICATIONS

**Languages (Proficient):** Java, C#, C/C++, SystemVerilog, HTML, Javascript, Python, SQL

**Tools:** Visual Studio, Git, Bash, Linux, GDB, Arduino

## PROJECTS

**Remote Control Lawnmower** January 2022

- ❖ Designed a four wheel drivetrain for an electric push mower and implemented radio controls.

**C++ Application—Lego EV3 Video Player** October 2021

- ❖ Developed a monochrome video player for the Lego EV3 with standard playback features.
- ❖ Developed a video encoder using ffmpeg that converts various video formats into one supported by the video player (compatible with arm/x86 platforms).

## ACTIVITIES & LEADERSHIP

**President, FIRST Robotics Team** (Arlington, WA)

June 2019 - June 2020

- ❖ Lead meetings for a ~30 person team, managed communications between officers and mentors, and partook in various community outreach activities.

**Team Captain, AFA CyberPatriot Team** (Arlington, WA)

September 2017 - June 2020

- ❖ Explored methods of securing cybersecurity vulnerabilities within virtual operating systems.