

ZAYD TAHIR

Mechatronics Engineering Student

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github.com/zaydtahir



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SKILLS

Languages/Tools	Java, Python, C#, C++, AutoCAD, SolidWorks, Arduino, Microsoft Office
Technologies	MongoDB, 3D Printing
Machine Skills	Lathe, Drill Press, Milling Machine, TIG Welding

PROJECTS

BediBot, Sept 2020 – Present - Database-driven Python Discord Bot

Provides email verification via the UW V2 WatIAM API

Data is stored using MongoDB (Sensitive information hashed for security)

In active use in both official and unofficial UW Discord servers with **3000+** unique users

Chess Engine, Aug 2020 - Java Chess Engine with AI

Chess Engine in Java with GUI built using Java Swing Components

Support for AI players powered by Stockfish Chess Engine

EXPERIENCE

FIRST Robotics Team 3571, Sept 2016 – June 2020 - Software Team Lead

Implemented autonomous motion through PID controls, vision-processing, encoders, and a NavX board

Demonstrated strong leadership skills as software team lead

Gained extensive Java experience and developed various machine tool skills

DECA, May 2018 – June 2020 - Vice President

Achieved 130% chapter growth as Vice Preseident in senior year

Placed top 10 at Ontario Provincial Competition (2020)

Qualified for ICDC - International Competition (2020)

Delcit Inc, July 2017 – July 2020 - Administrative Assistant

Demonstrated profeciency in Microsoft Office programs by preparing various documents and reports

Gained valuable experience in a professional environment under IT Consulting Company

McDonalds, July 2018 – Sept 2020 - Crew Member

Developed excellent communication skills and ability to work in a team

Demonstrated strong time-management skills by working 10+ hours weekly throughout high school

Tutoring, Aug 2018 - Private Math Tutor

Demonstrated teaching abilities to explain concepts to struggling students

Demonstrated communication and planning skills

AWARDS & DISTINCTIONS

John Milton Chapter IODE Shield, 2019 - Highest Academic Standing in Year 3

Sir Isaac Newton Exam, 2019 - Within the Top 200 Contestants in the World

OAPT Physics Contest, 2019 - 92nd Percentile of all Contestants

Shin Ji Kan Kai Kai Shin Go Ju Ryu Karate, 2019 - Achieved the Rank of Ju-Sho-Dan

EDUCATION

University of Waterloo, Sept 2020 – April 2025 (Expected)

Candidate for BAsC in Mechatronics Engineering

Cumulative GPA: