David Shan

📞 9367304543　@ davidbshan@gmail.com　🔗 https://davidbshan.com

◦ Profiles ◦

in David Shan　　DavidBShan

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◦ Awards ◦

Fellow
Telora
May 2024

Funded for **$25,000** to build a startup in Miami.

FRC Championships Division Finalist
First Robotics Competition
March 2023

Placed within the **top 2% of 3,286** teams

Big Data Challenge Winner
STEM Fellowship
January 2024

Winner of **$1000** through a wildfire prediction system based on raster data

Coyote's Lair Funding
Coyote's Lair
June 2024

Funded for **$3,000** to build a watch for families with elderly to have peace of mind.

2 Time AIME Qualifer
Mathematical Association of America
November 2023

Qualified for AIME in both Grades 10 and 11 doing both AMC 10 and AMC 12 with scores **105 and 100.5**

CCC Senior Honour Roll
University of Waterloo
March 2024

Achieved **top 4%** out of the 4,000 CCC Senior Competitors in 2024

USACO Gold Division
USACO
January 2023

Top **25% of all 4408** participants in the USACO Silver Division Contest

Skills

Web Development

Jest, React, Electron, Backbone, Typescript, Javascript, Selenium

Machine Learning

Numpy, OpenCV, Tensorflow, Python, Jupyter

Project Management

Jira, Git, Agile

Database

MySQL, Big Query, Firebase, Neo4J

Experience

Geotab
Software Developer Intern
Oakville, Canada
June 2023 - August 2023 & June 2024 - Present

- Developed React App to validate JSON compliance data through Puppeteer and Jest to support the product team in helping customers.
- Implemented Web Workers and Indexed Database in Typescript to thread logging to decrease CPU consumption.
- Streamlined developer process by migrating QUnit tests to jest, added stricter type checking and fixed failing Selenium tests.

Aceflow
Head of Backend Development
Toronto, Ontario
September 2023 - January 2024

- Developed quiz generator app based on PDF and video data to improve students' studying and test preparation.
- Launched a revenue-generating beta with **2,000+ sign-ups**
- Received a **$150k+ credit grant** from Microsoft, an Ingenious+ innovation award, and funding from Emergent Ventures.

FRC Team 610
Head of Programming & Technician
Toronto, Ontario
September 2023 - Present

- Oversaw the workflow for all **14 programmers** to ensure code quality and robot efficiency.
- Designed the project management framework for Team 610 to improve communication and flexibility.
- Programmed an auto-balancing algorithm in Java using PIDs.
- Developed multiple classes to control the arm, drivetrain, and vision to maximize performance.

Education

Crescent School
High School
September 2021 - June 2025

Current Grade 12 student at Crescent School. Head of Data Science Club, Head of CS Club, Head of Math Club, Varsity Cross-Country, Ultimate Frisbee