

# AKASH JAYATHIRTHA

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## EDUCATION

**University of Waterloo**, Waterloo, ON

BASc Computer Engineering (Cumulative GPA-83.3%)

Sept 2022 - Apr 2027

## SKILLS

**Languages:** Python, C++, Arduino IDE, SQL,VHDL, HTML, CSS, Javascript ,Latex

**Tools:** React.js,Flask,Microsoft Azure,Microsoft Azure AI, Git,Jira,Power BI,MS Office,Numpy,Pygame

**Operating Systems:**Windows,Linux

**Softskills:** Critical Thinking,Time Management,Communication

## EXPERIENCE

### Waterloo Experience (WE) Accelerate Program,

*Project Team Member(Microsoft Azure and AI Fundamentals)*,Waterloo,Ontario

May 2023 - Aug 2023

- Proposed an AI Bot solution to provide financial advice to an average earner using Azure tools such as Azure AI and Azure Bot services.
- Trained a machine learning model using data from Investopedia and Azure Machine Learning to form recommendations for course of action regarding a finance.
- Passed two azure certification exams (AZ-900 and AI-900) after a month of training to gain knowledge in using azure tools.
- Scheduled Team meetings and created weekly planners as a team leader to discuss and assign tasks to be done for the weekly deliverables using Microsoft Teams and Google Docs.
- Cofacilitated a 15 minute presentation using MS PowerPoint to demonstrate the functioning of our AI bot.

**Fun Robotics**, *Robotics Team member*, Dubai, UAE

Dec 2019 - Dec 2020

- Obtained experience with circuit boards and Arduino IDE
- Implemented simple LED and timer based projects.

## PROJECTS

### Personal Portfolio Website *React.js*

<https://personal-site-akashj50.vercel.app>

- Built a personal website using the react framework (HTML,CSS,Javascript)
- Performed Manual Testing on local host for effectiveness
- Directed at Software Design and Applications.

### Weather Check *Javascript,Python,Flask*

<https://akashj50.pythonanywhere.com>

- Built a weather check website which provides information about the current weather designed using Javascript and the flask module in Python.
- Integrated a third-party weather API by managing and utilizing an API key to fetch data
- Deployed the website on a hosting platform making it accessible to users online.

### Expense Tracker *HTML,CSS,Javascript*

<https://expense-track-ten.vercel.app>

- Developed a website which tracks your income and expenditures to better plan budgets built using HTML,CSS and Javascript.
- Created a user-friendly interface that enables users to input and manage their expenses.
- Used Javascript to perform calculations for expense entries and ensure data integrity.

### Energy Monitoring System *VHDL*

- Designed a HVAC system which monitors energy in homes using VHDL
- Developed a 4 bit magnitude comparator to increase or decrease temperature dependent on the desired temperature using Behavioral VHDL and tested the system on the FPGA board.

### Gameroom *Python, SQL*

- Developed a gameroom using Python and added two games,that is Connect 4 and Tic Tac Toe
- Stored all the details of the wins and losses using SQL.
- Used Python Libraries like Numpy and Pygame to enhance the game features.

### Geesepotter *C++*

- Implemented functions and created a minesweeper game in C++.
- Designed Game Logic from scratch and could be played by two players.

## LICENSES AND CERTIFICATIONS

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### **Microsoft Certified: Azure AI Fundamentals** *Microsoft Azure AI*

- Passed the AI-900 exam with a score of above 700/1000

### **Microsoft Certified: Azure Fundamentals** *Microsoft Azure*

- Passed the AZ-900 exam with a score of above 700/1000

### **CS50 AI EDX certificate from Harvard** *Python*

- Coded and implemented AI for various projects such as Minesweeper,Knights,PageRank etc

## AWARDS

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### **Euclid and Hypatia Maths Contest**

- Secured a certificate of distinction(Top 25%) for exemplary performance in the Euclid Maths contest and Hypatia Maths Contest conducted by Faculty of Mathematics,University of Waterloo.

### **Advanced Placement Scholar**

- Achieved an AP score of 3 or above in 3 or more AP exams.

### **Honours in 10th,11th and 12th grade CBSE Board Exams**

- Secured honours in 10th grade for scoring 97% ,11th grade for scoring 92% and in 12th Grade for scoring 95%.

### **CBSE Swimming Nationals Competition**

- Bagged a gold and silver medal in the CBSE Swimming National Competition.

## INTERESTS

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- Web development/Frontend
- Embedded Systems and Hardware
- Machine Learning and AI
- Robotics
- Swimming