

# Aritra Kar

a8kar@uwaterloo.ca | +91-9830081526

github.com/aritrakar | aritrakar.com | linkedin.com/in/aritra-kar

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BACHELOR OF COMPUTER SCIENCE

Sep. 2020 - Apr. 2025 | Waterloo, CA

Cheriton School of Computer Science

Cum. GPA: 3.82 / 4.0

Major GPA: 3.95 / 4.0

### SOUTH CITY INTL. SCHOOL

#### INDIAN SCHOOL CERTIFICATE

(98.75%)

Graduated May 2020 | Kolkata, IN

## SKILLS

### TECHNICAL SKILLS

#### Languages:

JavaScript(ES6) • Python3 • Java  
HTML5 • CSS3 • Racket/Scheme • C

#### Tools/Frameworks:

ReactJS • Node.js • Git • Firebase  
MongoDB • Scikit-Learn • Pandas  
Matplotlib • Seaborn • Canva  
Wondershare Filmora X

### SOFT SKILLS

#### Strong:

Leadership • Communication • Teamwork

#### Languages:

English (IELTS: 8.5/9.0 | TOEFL: 118/120)

Bengali (Fluent) • Hindi (Fluent speaker)

French (Elementary)

## CERTIFICATIONS

Virtual Internship (J.P. Morgan Chase &

Co. (Software Engineering)) • Kaggle

(Python, Intermediate Machine Learning,

Data Visualization, Pandas) • Trinity

College London (Communication Skills)

## COURSEWORK

Elementary Algorithm Design and Data

Abstraction • Designing Functional

Programs • Linear Algebra 1 • Calculus 2

## INTERESTS

AI • Physics • Business • Quizzing  
Music (Piano, Violin)

## EXPERIENCE

### MINDKRAFT EDUCATION INC. | SOFTWARE DEVELOPER AND CODING INSTRUCTOR

May 2021 – Aug. 2021 | Oakville, CA (Remote)

- Conducted online classes and assisted in developing a curriculum for teaching coding to kids.
- Wrote code in Java, JavaScript and Python. Constructed lesson plans and developed visual aids.
- Reviewed the existing UX of the company's websites and suggested improvements and new features.

### FUTURITE EDUCATION | ROBOTICS TRAINER

May 2018 – June 2018 | Kolkata, IN

- Taught robotics concepts to children from ages 8 through 14 using LEGO's EV3 robotics kits.
- Trained kids for competitions like the World Robotics Olympiad and Technoxian India.
- Demonstrated basic physics phenomena with simple machines, change of direction of motion using gears, et cetera.

## PROJECTS

### DOCDASH | WEBSITE, GITHUB

- Built a personal healthcare and consultation management system for doctors and patients with **ReactJS**, **Firebase**, **Vonage API** and **Material-UI** for Hack The North 2020++.

### JARVIS | GITHUB

- A personal voice assistant implementing basic deep learning to detect, classify and respond to various commands and perform 6 unique actions. Developed with **Python3** and **Tensorflow**.

### PATHFINDING VISUALIZER | WEBSITE, GITHUB

- Created web-app with **ReactJS** that visualizes the shortest possible path between two dynamically placed drag-and-drop points, currently featuring Dijkstra's algorithm and A\* search.

### TIC-TAC-TOE | GITHUB

- A Tic-Tac-Toe player implementing the Minimax algorithm with Alpha-Beta pruning. Implemented using **Python3**.

### COVID-19 TRACKER | WEBSITE, GITHUB

- A web-app that displays the latest global and country-wise statistics about the pandemic and visualizes the data using charts and graphs. Built with **ReactJS** and **Charts.js**.

## AWARDS

- 2020 **The Telegraph School Awards** - Outstanding Academic Excellence
- 2020 **University of Waterloo** - President's Scholarship of Distinction
- 2020 **University of Waterloo** - Mathematics International Experience
- 2019 **University of Waterloo** - Certificate Of Distinction in Euclid Mathematics Contest 2019 (*Top 25% worldwide*)