

# SHIVAM ARORA

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## OBJECTIVE

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A final year computer science student seeking for an opportunity which will put me in a position to utilize my problem solving, analytical and programming skills.

## WORK EXPERIENCE

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### Tortoise General Trading LLC

January 2021

#### Technical Analyst

- Developed an attendance logging system using computer vision.
- Developed an internal platform for fetching and comparing the current market prices of cryptocurrencies through APIs of various exchanges.

### HM General Trading FZE

May 2020

#### Freelance, Web Developer

- Designed and developed a user-friendly website.
- Trained the client on how to independently make updates to the website using the admin panel.

### JDK Restaurant

February 2020

#### Technical Advisor

- Introduced POS system which ran a Java software for billing.
- Automated daily backups of everyday statements on closing the daily invoice.

## EDUCATION

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### BSc. Computer Science (hons), Heriot Watt University

2017-present

Achieved a cumulative GPA of 3.7 and 4.0 in Year 3 and Year 4 (semester 1) respectively.

#### **Additional Certifications:**

The Complete Flutter Development Bootcamp (online)

July 30, 2020

Machine Learning, Data Science and Deep Learning with Python (online)

June 9, 2020

The Web Developer Bootcamp (online)

Oct. 17, 2018

## NON-ACADEMIC PROJECTS

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**Automated Utility Bills Payment System:** A python application which scrapes the outstanding amount of selected utility bill payment websites with the entered credentials and pay using the entered card details.

**Binance Portfolio Tracker:** A system which gets the list of executed orders/trades using binance's API (cryptocurrency exchange) and calculates the realized and unrealized profit using weighted average formula.

## ACADEMIC PROJECTS

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**PRO-Fitness:** (Final year dissertation project) Developing an artificially intelligent cross-platform application in which users can track their workout repetitions using the device's camera.

**Kawaii Home Automation Web Application:** A smart home Django application which helps users to control and monitor the usage of their smart home devices.

**Sky Routes:** A Java program which determines the shortest, cheapest or the flights with the least number of stops between two locations using Dijkstra's algorithm.

**Master-Mind Game:** A PvP game made for raspberry pi in which the player has to guess the secret number entered by the other playing by interacting with the GPIO pins of the pi.

**Tic-Tac-Toe Bot:** A.I. bot for tic tac toe game based on Reinforcement learning and Markov Decision Process.

**Multi-Threading:** Developed a program in java which deals with multi-threading concepts such as intrinsic, extrinsic semaphoric and atomic synchronous multi-threading.

## TECHNICAL SKILLS

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### Programming Languages and related frameworks:

Proficient in Python, JavaScript, Java, Dart, LaTeX, Flutter, NumPy, Pandas

Intermediate in SML, Prolog, PDDL, Swift, Golang

### Web Development:

Proficient in HTML, CSS, Django, Flask

Intermediate in React.js, Node.js

### Database and Database Management Systems:

Proficient in PostgreSQL, PgAdmin, MySQL, MySQL Workbench, Firebase

## ADDITIONAL INFORMATION

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Proficient in English, Hindi and Punjabi

Hobbies: Gaming, table tennis, football, fitness training