

# GAGANJEET SINGH

## IT | Computer Science | Software Developer

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### PROFESSIONAL SUMMARY

Computer Science student pursuing Bachelors in Deakin University.

Competent in Full Stack Web Development using MERN stack (MongoDB, Express, ReactJS, NodeJS) and Django and flask with Python for backend.

Good understanding in algorithms, data structures and data science.

Well versed in Artificial intelligence libraries like OpenCV, visualization libraries to create comprehensive reports and analysis.

#### SYSTEMS

- Windows
- Linux
- Managing Cloud VMs

#### SKILLS

- Programming Languages: Python, JavaScript C#, C++
- Server-Side frameworks: Flask, Django, NodeJS, Express
- Client-Side technologies: ReactJS, HTML, CSS
- Database: MongoDB, SQL and PostgreSQL
- Cloud Technologies: GCP and AWS.

#### COMPETENCIES

- Web development using Flask or Django and python, MERN stack
- Tensor Flow library for AI and ML
- Software design patterns
- Team player

### WORK EXPERIENCE

**November 2021– Current**

#### Web Development Intern

FreelanceHub, Melbourne

- Working with ReactJS to add additional features to the website.
- Adding modularity to aspects of Website.
- Adding API endpoints to Backend server (NodeJS and Express)
- Modern medium of delivery using zoom and MS Teams
- Lead team of 3 Interns in web development team

**July 2021– Current**

#### Tutor

Junior Engineers, Melbourne

- Teaching Python and Scratch to young students
- Modern medium of delivery using zoom

## ACHIEVEMENTS

- **Scholarship awarded in Deakin University**  
25% Scholarship awarded by Deakin University based on Academic performance
- **3<sup>rd</sup> Rank in National Level Science Fair Exhibition**  
Created model explaining semi-conductors and uses in computers on a fundamental level.

## EDUCATION & QUALIFICATIONS

### **Bachelor of Computer Science**, Deakin University (*Graduating 2022*)

Developing knowledge in software development, web application development, Internet of Things, Networks, Artificial Intelligence, Embedded Systems, Data Science and Algorithms.

- Developed backend and frontend for 2 websites using Flask framework (Group Project, used Scrum Agile framework)
  - Developed website for pantry system, this include connecting to a cloud database (Clever Cloud), creating request forms for requesting food items. Rendering food item data in tables, and setting up alerts on low stock and approaching expire date.
  - Developed website which renders data from cloud database (AWS). Connecting database to a raspberry by with MySQL connector and adding values taken form a RFID module. Setting up User authentication for website for showing content according to which uses is logged in.
- Developed projects related to AL and ML,
  - Developed project which uses Open AI gym to implement Q learning for problem of Knight's Tour.
  - Research about Deep Q learning and MST and its use in AlphaGo
- Developed Advanced Algorithms related to various data structures like graphs, stacks, queues etcetera. Implemented MapReduce algorithms for Matrix Multiplications and PageRank.

### **Highschool SVM**, Malerkotla, India (*Completed 2019*)

Majored in science subjects including Mathematics, Physics and Chemistry.

## EXTRACURRICULAR & ACADEMIC ACTIVITIES

### **JP Morgan Chase & Co.** Software Engineering Virtual Experience (*2021*)

Participated in the open access JP Morgan Chase & Co Virtual Experience Program with Forage.

Tasks Completed include:

- Task A
- Task B
- Task C

### **Google Cloud Fundamentals: Core Infrastructure.** Google Cloud Skills Boost (*2021*)

Leant about GCP fundamentals. Completed labs and quizzes on working with VMs, Cloud Storages/databases, Containers, ML on cloud.

## REFERENCES

**Sarah Masih**, Programmer, Musculoskeletal Australia  
0478101070

**Avinash Maurya**, IT Director, Dress Anomalie, USA  
0403023728