

# Aravindan G

COMPUTER SCIENCE ENGINEER · SOFTWARE DEVELOPMENT ENGINEER

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## Personal Profile

As a highly motivated Computer Science Engineer, I find great passion in exploring the realms of technology, design, and their societal implications. With a robust engineering foundation, I am dedicated to staying current with the latest technological advancements. My coding proficiency, coupled with my skills in graphic design, photography, and branding, allows me to approach challenges from a multifaceted perspective, fostering innovative solutions.

I actively contribute to various Student Clubs and proudly represented my college as a Campus Ambassador multiple times during my Bachelor's program. My commitment to continual learning and self-development drives my enthusiasm for embracing new challenges and providing opportunities to further refine my skills. I am eager to channel my passion and expertise into any new endeavour, aiming to create a positive impact.

## Professional Work Experience

### FIS Global

Bangalore, India

#### Software Development Engineer

June 2022 - Present

- Automated query-generation processes by developing Python scripts that systematically generate Linux commands, resulting in a substantial enhancement of overall company efficiency.
- Optimised the Database Deployment Process across multiple projects by deploying Flyway scripts and creating DB-Loader images, resulting in an impressive 25 per cent reduction in project deployment time.
- Collaborated within a four-person DBA team to address intricate database-related challenges, resulting in a 15 percent reduction in query execution time through efficient data modelling and query optimization. Introduced SQL programming best practices, leading to a 20 percent decrease in query-related errors.
- Spearheaded initiatives to streamline and automate additional processes, contributing to overall operational efficiency. Played a key role in mentoring junior team members, fostering a collaborative and knowledge-sharing environment.
- Actively engaged in continuous learning and professional development to stay abreast of the latest industry trends and technologies- Automated query-generation processes through the development of Python scripts, significantly enhancing overall company efficiency.
- Technical Skills:** Shell Scripting, Python, SQL, Oracle DBA, DevOps, Git, Data Structures, Product Life-cycle, JIRA.
- Soft Skills:** Teamwork, Communication, Presentation skills, Time Management.

## Education

### Global Academy of Technology

Bangalore, India

#### Bachelor's in Computer Science and Engineering

August 2018 - July 2022

- CGPA: 8.75 / 10.00**
- First VTU Batch to successfully Graduate with **Honours** by securing an additional **20 credits through NPTEL Courses**

### Jain College, RR Nagar

Bangalore, India

#### Pre-University Course

April 2016 - May 2018

- Specialised in Physics, Chemistry, and Maths with Computer Science

### B. E. T. Convent

Bangalore, India

#### X Grade - SSLC

March 2015 - March 2016

## University Projects

### Facebook Clone

#### Individual Project - Scaler

Jan 2023 - Dec 2023

- Developed a comprehensive Facebook Clone using PHP, JavaScript, CSS, and SQL.
- Implemented user authentication, allowing secure user registration, login, and profile management.
- Designed and integrated a relational database using SQL for efficient data storage and retrieval.
- Utilized PHP for server-side scripting, ensuring dynamic content generation and seamless interaction.
- Implemented real-time features using JavaScript, enhancing user experience and engagement.
- Ensured a responsive and visually appealing user interface through the use of CSS.
- Incorporated security measures to protect user data and privacy.
- Deployed the application on a web server, showcasing the ability to manage end-to-end project development.
- Technical Skills:** PHP, HTML, CSS, JavaScript, XAMPP, Python
- Soft Skills:** Database Management, Adaptability, Time Management

## Smart Parking Allocation System Development Using Integrated IOT Technology

Bangalore, India

Global Academy of Technology

May 2021 - May 2022

- Developed a smart parking system using IoT technologies to address parking issues in a large city.
- Assigned bay numbers to cars at the entrance gate and synchronized free parking zones after each car left.
- Reduced travel distances by assigning cars to the nearest available parking lot.
- Eliminated deadlock situations at any given point during the parking allocation and de-allocation
- Effectively used sensors to save on development and maintenance costs.
- Optimized parking space usage and provide convenience to users.
- **Technical Skills:** Arduino, Sensors, IR, RFID, H-Bridge
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking

## Real Time Air Quality Monitoring Predictive Model

Bangalore, India

Global Academy of Technology

September 2021 - January 2022

- Worked on a national data set of sensors linked to a regulatory-grade system that monitors air quality and predicts PM 2.5 levels.
- Analysing data from 2000 to 2022 and discovering patterns in the data that show trends between Relative Humidity, Pressure, Temperature, Wind Direction, SO2, and NO2 per capita.
- Studied Exploratory Data Analysis, projected daily, weekly and hourly trend in PM2.5 concentration in the air
- **Technical Skills:** Python(Pandas, NumPy, Scikit-Learn, Jupyter Notebook, Tableau)
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing, Logical Thinking, Model Making

## Publications

### Automatic Detection of Covid-19 using Deep Convolution Neural network

Bangalore, India

Turkish Journal of Computer and Maths

August 5, 2021

### Recursive implementation of Dynamic Programming Approach to obtaining the shortest path in a distance Network

Gorakhpur, India

Journal of Computational Science

April 5, 2020

### The Concept of Deep Learning in Facial Expression

Bangalore, India

Talent Fair, Global Academy of Technology

June 1, 2020

## Achievements

|      |  |       |
|------|--|-------|
| 2022 | <b>Best Outgoing NSS Volunteer</b> , National Service Scheme           | India |
| 2022 | <b>Core Team Member</b> , GAT Interact 2022                            | India |
| 2021 | <b>Campus Ambassador</b> , E-Cell, IIT Bombay                          | India |
| 2021 | <b>Best Start-up Idea</b> , IEEE Entrepreneurship Boot Camp 2022       | India |
| 2021 | <b>Elite</b> , Managerial Skills for Interpersonal Dynamics            | India |
| 2021 | <b>Elite + Silver</b> , Soft-skill Development, Emotional Intelligence | India |
| 2020 | <b>7.8</b> , STEP Plus - English Proficiency Exam (The Hindu)          | India |
| 2020 | <b>Level 1</b> , National Engineering Olympiad 3.0                     | India |

## Skills

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|----------------------|--|
| <b>Programming</b>   | Python (Data Structures, OOPS, Pandas, NumPy, Packages), C/C++, SQL, REST API, Cloud.  |
| <b>Miscellaneous</b> | Linux, Microsoft Office, Shell Scripting, Graphic Designing, AR/VR, AI/ML, UI/UX, Git. |
| <b>Soft Skills</b>   | Critical Thinking, Teamwork, Problem-solving, Documentation, Engaging Presentation.    |

## Interests

|                                 |   |
|---------------------------------|---|
| <b>Graphic Designing</b>        | I've worked as a freelance Graphic Designers for over 3 years for various clients from inside and outside India |
| <b>Badminton, Tennis, Chess</b> | I've participated in various tournaments. Demonstrated discipline and sportsmanship in competitive settings.    |
| <b>Trekking and Exploring</b>   | Completed multiple treks with different difficulty levels, showcasing physical endurance and mental resilience. |