

# SUTHAKHAR PONNAMBALAM

suthakhar.ponnambalam@gmail.com | +1 (514)553-7471 | <https://www.linkedin.com/in/suthakharponnambalam/>  
<https://github.com/SuthakharPonnambalam>

4050 Avenue St Kevin, Unit 3, Montreal, QC, Canada, H3T1H9

## Technical Skills

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- **Programming Languages:** Core Java, JavaScript, Beginner Python
- **Concepts:** OOPs, Algorithms, Design Patterns
- **Web Development:** HTML5, CSS3, Bootstrap, jQuery, JSP, JSON, REST API
- **Frameworks/Libraries:** AngularJS
- **Databases:** MongoDB, SQL
- **Deployment Tools:** Docker, AWS
- **Operating System:** MAC OS, Windows, Linux
- **Collaboration Tools:** GitLab, Git, Slack, Microsoft Teams.
- **Code editors:** Atom, Sublime Text
- **IDE Tools:** IntelliJ, Eclipse, Visual Studio Code
- **Project Management Tools:** Jira, Trello

## Inter- Personal Skills

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- Strong analytical thinking and Problem solving skills
- Quick learner, Motivated, and Adaptable
- Fluent in English and Beginner in French

## Education

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### Master of Applied Computer Science

2018 - 2020

#### Concordia University | Montreal, QC

Relevant Courses: Advanced Programming Practices, Advance Database Technologies, Distributed System Design, Algorithm Design Techniques, Software Requirements Engineering, Combinatorial Algorithms.

### Bachelor of Engineering (B.E.) in Computer Science

2014 - 2018

#### Anna University | Chennai, TN

Relevant Courses: Programming and Data structures, C# and .Net , Internet Programming, Software Development Concepts, Object Oriented Design, Web Development, Networks and Communications.

## Experience

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### Instructor (Part Time)

#### CDI College | Montreal, CA

Jan' 2020 – Dec' 2020

- Delivered lectures effectively with an in-depth understanding of all the concepts.
- Performed tutorials on HTML, CSS, and Javascript to meet the needs of students using strong communication skills.
- Responsible for managing and evaluating a class of 30 students throughout the course and develop job-oriented skills in the students.
- Involved in modifying course outlines as per the latest advancements in technology.
- Programming Language: HTML5, CSS3, Javascript, Angular, Bootstrap

### Junior Systems Engineer Intern

#### Infosys Technologies | Mysore, KA

Jan' 2018 – July' 2018

- Developed a webpage for a client using various technologies ranging from front-end development to the database.
- Deployed the webpage on a hosting platform and got feedback for improvement.
- Performed Scrum activities.
- Delivered the project on time by making improvisations from the feedback given during mid-phase reviews.
- Programming Language: HTML, CSS, Javascript, SQL

## Academic Group Projects

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### The Grand Conquest Game

Jan' 2019

**Project Description:** Developed a Java multi-player gaming application. The game loads a world map upon opening where players take turns to conquer countries and expand their arsenal. The player with large armies and power is declared the Emperor of Worlds.

**Technologies/Tools:** Java and Github

### Distributed Event Management System

July' 2019

**Project Description:** Developed a Java application which has event booking functionality with 4 distributed system each with their own set of servers. Demonstrated the system's fault tolerance and its high availability.

**Technologies/Tools:** Java RMI, Java Multicast messaging, CORBA Standards, Java Multithreading.

### Adaptive Bipartite Matching

Mar' 2020

**Project Description:** Performed a survey on the research paper that focused on different Bipartite matching algorithms and classified them based on their complexity in terms of memory and space. Analyzed Traditional Brute force approach, Divide and Conquer Strategy and ML based algorithms. Arrived at a conclusion that ML based approach was computationally efficient for this problem.

**Concept used:** Combinatorial Algorithms.

### Other Projects

#### Colour Game Project:

Dec' 2018

**Project Description:** Developed a Single-page application with a notion to allow the users to play in either three/six-block mode for providing better gaming experience.

**Technologies/Tools:** HTML, CSS, JavaScript, Git

#### Two-Phase Multi-Way Merge Sort

Dec' 2019

**Project Description:** Developed a Java application to sort integer tuples in a file that are extremely large and cannot fit into the main memory in a single instant of time.

**Technologies/Tools:** Java, Git

#### Image Filter Application

July' 2020

**Project Description:** Developed a web-based application to accept an image as an input and apply different types of filters on the image.

**Technologies/Tools:** HTML, CSS, JavaScript, Git

## Volunteer experience

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### Event Co-ordinator

Dec' 2017

- Managed and conducted the annual intra-mural competition for the department of Computer Science.
- Planned events adhering to the scheduling policies of the university.
- Created a plan to manage time and funds for the successful completion of the event and successfully managed to follow the plan.

### Entrepreneurship Cell member

2016 - 2017

- Actively involved with co-workers to schedule some events within our university, Worked as a java mentor to Junior students as a part of iCode.

## Awards

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### Best Outgoing Student Award

Dec' 2015

- Rewarded with "Outstanding Student Award" for excellence in academics, sports, extra-curricular and other co-curricular activities.

### Innovative Paper Award Saveetha University

Mar' 2018

- Presented a paper at a national conference held at Saveetha University during the final year of my undergraduate studies.
- Won the Innovative paper award for the project 'Twitter data analysis using ML'.