

# Sameer Naib

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## Education

### Master in Computer Science

University of Manitoba, Winnipeg

- **GPA:** 4.3/4.5
- **Courses:** Online Algorithms, Data Visualization, Data Security and Privacy, Algorithms in Comparative Genomics, Research Methodologies
- **Research:** Online Algorithms with major focus on class of the  $k$ -server and the bin packing problem

### Bachelor of Technology in Computer Science and Engineering

Guru Nanak Dev University, India

- **CGPA:** 8.59/10
- **Courses:** Java, Object Oriented Programming, Data Structures, C, Design and Analysis of Algorithms

## Job Related Skills

### Technical Skills

- **Language/Technologies:** Proficient in Python, JavaScript, React, Node.js, Flask, Microsoft Visual Studio, Pycharm, HTML5, CSS3
- **Databases:** Sql Server, PostgreSQL, Oracle
- Experience in writing unit tests in python and React using Jest, Enzyme and Snapshot testing
- Active member of *Geometric Approximations and Distribution Algorithms* lab at the University of Manitoba with an objective of solving various theoretical computer science problems
- Researcher in the field of *Online Algorithms*
- Data visualizations using Tableau for effective presentations

### Interpersonal Skills

- Defined the problem, generated the possible solutions and implemented the decisions after evaluating the pros and cons of proposed options.
- Handled the planning of project development and timeline setting to ensure on-time delivery
- Managed the organizing team of the 30th Canadian Conference on Computational Geometry
- Collaborated with teams of various research projects with an objective of completing a task in restricted time

## Experiences and Projects

### 1. Software Developer HP

March 2020 – present

Full Stack Developer involved in designing Auto-Face Detection Machine Learning Application

**Front End:** React, JavaScript, HTML5, and CSS3

**Back End:** Node.js, Express, Knex.js

**Database:** PostgreSQL, Oracle, Sql Server

**Software and Tools:** Postman, GitHub, Clarafai, Bcrypt, Tachyons library

#### **Responsibilities:**

- Communicated with clients to analyze their needs, planned the architecture of the software design, developed and test the machine learning application in order to meet their standards
- Troubleshooted problems and provided technical support to customers and staff members, assisted with account creation and, other software-specific functions
- Managed the development life-cycle of applications and websites, worked on designing schemas and building databases

### 2. Computational Analysis of the Online Algorithms

January 2018 – March 2020

**Methodologies:** Potential Function, Work Function, Advice Complexity, Binary String Guessing.

#### **Responsibilities:**

- Analyzed an important variant of the classic  $k$ -server problem with a motivation of closing the long existing gap between lower and upper bounds of the problem
- Successfully designed the algorithm and writing the conference paper.
- Designed an application for performance testing using processing language and Java platform.
- Implemented efficient programming techniques like recursion based on dynamic programming
- Researched various other online problems like bin packing and online matching of points.
- Actively participated in a group called *Coauthor* to collaborate with experts of various fields with a common objective of solving open computer science problems

### 3. Teaching Assistant and Grader at University of Manitoba

January 2017 – April 2019

**Courses:** Python, Java, C, Processing, Analysis of Algorithms, Design and Development of Object Oriented Software, Programming Practices

#### **Responsibilities:**

- Understanding the teacher's routine when it came to deliver a lesson plan and running the class in the event that the teacher was absent on a particular day
- Prepared instructional material such as handouts, assignments, problem sets, tests and pseudo codes for students to help them solve their coding problems
- Created a positive learning environment by allotting a maximum of 15 minutes to each student during busy hours

#### 4. Sales Associate at Home Depot

May 2017 – March 2020

##### **Responsibilities:**

- Develop a rapport with customers, demonstrating a friendly and helpful manner to put them at ease
- Worked with the management team to stay updated on product knowledge and be informed of any changes in company policies and sales
- Planned, prioritized and delegated work tasks to ensure proper functioning of the department
- Identified and implemented strategies to improve quality of service, productivity and profitability
- Reliable and dependable associate responsible for keeping track of the funds in the cash register and reported any discrepancies to the supervisor or manager

#### 5. Full Stack Developer at Tech Mahindra

January 2016 – December 2018

Worked as a key designer as well as developer of *Team Collaboration Tool* (Web-based project).

**Front End:** HTML5, CSS3, JSP, Servlets and Ajax

**Back End:** JavaScript, Oracle

##### **Responsibilities:**

- Determined operational feasibility by analyzing and evaluating problem definition, client's requirements, solution development, and proposed solutions
- Implemented MVC architecture to promote simultaneous development
- Designed the cross-platform application for monitoring employees at various geographical locations

### Achievements

#### **University of Manitoba**

- 'Reine-Baniuk Memorial Scholarship' for outstanding academic achievements in the Computer Science (2018-19)
- 'Science Enhancement of Grant Stipends (SEGS)' as fellowship for research (2018-19)
- Fellowship for education purposes as a research support from the supervisor (2018-19)
- International Graduate Student Entrance Scholarship (2017-19)

#### **Undergraduate/School**

- Won State Level Chess Championship in 2010 and went on to play with the Viswanathan Anand (World Ranking: #1)
- Got 1<sup>st</sup> position in Interschool Science Drama Contest

### Hobbies

- Travelling, reading, listening to music, playing cricket and badminton.