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# ARYAN THAKUR

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## SKILLS SUMMARY

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- Advanced proficiency in JAVA and Object Oriented Programming through coursework, projects, coding challenges and contests, and an internship
- Highly proficient in C and moderately proficient in C++ and Python3 through coursework and self-study
- Highly proficient in multiple software design processes like AGILE, scrum through coursework and internships
- Advanced proficiency in written and oral professional communication learned through working in an internship
- Highly experienced in detailed, creative problem solving through coding challenges and contests
- Very familiar with SQL and database handling, also very familiar with the MySQL system
- Very experienced in designing, implementing and using a RESTful API through personal projects and self-study
- Advanced proficiency in HTML5, CSS3, SASS, and CSS frameworks through personal projects and self-study
- Highly proficient in JavaScript ES6, jQuery including frameworks such as AngularJS, development of Single Page Applications, MVC design pattern and AJAX through personal projects and self-study
- Highly proficient with Linux, Linux programming and the Linux CLI through coursework
- Very proficient in version control systems like Git and SVN through coursework and self-study
- Highly experienced in back-end web development in PHP through personal projects and self-study
- Highly proficient in troubleshooting, testing, testing in the JUnit framework, debugging and fixing common software security vulnerabilities through side projects and an internship
- Very experienced in web scraping in Python using Selenium and BeautifulSoup

## EDUCATION

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### Honours Bachelor of Science: Computer Science Specialist – Entrepreneurship

Sep 2019 - present

University of Toronto Scarborough, Scarborough, ON

- **Second year student**
- **Awards:** \$1500 entrance scholarship
- **Dean's List for Academic Year 2019-2020**
- **cGPA: 3.73**

## PROJECTS

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### Modelo

April 2020 – August 2020

Solo Side Project, Mumbai, India

- Created a website, a single page application, during the nationwide and worldwide lockdown due to the pandemic, for models/actors to register themselves and casting agencies to access these profiles to hire them. Casting agencies could also launch auditions and models/actors could submit audition tapes to them.
- Implemented the RESTful API for the website
- Created front end, consisting of multiple pages, using HTML5, CSS3 and CSS frameworks, used micro-front ends too
- Used many 3<sup>rd</sup> party JavaScript libraries like scrollReveal.js for animations and design

- Used JavaScript with AngularJS to integrate the front end with the backend, using AJAX for multiple features
- Designed the back end of this website using PHP
- Stored all relevant data, such as user account data, in SQL databases using the MySQL system
- Revised the application multiple times to fix security vulnerabilities and to debug
- Created payment gateways for users to obtain different perks and visibility levels

### **Bus Tracking System**

May 2018 – August 2018

Non-Profit Side Project, Mumbai, India

- Created a school bus tracking system, with extensive research and testing, for the security of my high school's transportation system
- Coded the mobile applications with my team in OOP languages such as JAVA
- Using SQL, I created helpful databases to store location and user data
- Chalked out and implemented complex real-time GPS tracking systems through relatively simple algorithms
- Professionally managed a small team, and communicated the project needs effectively leading them to build the entire website and Linux server for the back-end workings of this tracking system (in PHP)
- Learned troubleshooting by debugging the system multiple times to ensure smooth workings
- Learned the application development process hands-on through strategic planning of the project

## **WORK EXPERIENCE**

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### **Software Researcher and Developer Internship**

LivePages, Mumbai, India

March 2018 – June 2018

- Used JAVA to rework and implement multiple algorithms in various projects of the company like Android apps, also designed front end of mobile applications for sports clubs in the neighborhood using UI/UX principles under a mentor
- Demonstrated good professional communication skills in English, both written and oral, through email and verbal communications with senior developers
- Multitasked various assignments through effective organization skills which made me highly efficient for the company and a valuable asset
- Ran troubleshooting testing, and stored the data in Excel tables and logistically analyzed test results which helped to improve algorithms of the senior developers; also ran unit testing
- Occasionally provided technical support to the marketing team for applications like MS PowerPoint and Photoshop

## **VOLUNTEER EXPERIENCE**

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### **'Technology Teacher'**

Oct 2017 – Dec 2017

Spark-a-change, Mumbai, India

- Introduced less-fortunate children (children of domestic helpers) to basic programming and algorithmic thought
- Taught the children basic programming related mathematics and mathematical analysis of data
- Maintained a calm, friendly, compassionate personality with the children and made them feel welcome, and at home.
- Used my communication skills to find a communication style to blend in with them

## **EXTRACURRICULAR EXPERIENCE**

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### **Google Foo Bar**

November 2020 – present

- Completed all 5 possible levels of the Google Foo Bar challenge (Google's secret online coding challenge)
- Demonstrated my knowledge and understanding of algorithms and JAVA by solving the various coding challenges involving questions regarding Polya Enumeration Theorem, Markov Chains, Dijkstra's algorithm, Floyd-Warshall's algorithm, Max Flow algorithm and more

### **Coding Contests**

Jan 2018 – present

- Participated in various coding contests and applied algorithmic and creative problem solving skills to chalk out algorithms for the programming questions which led me to receive good rankings
- Demonstrated my knowledge of Object Oriented Languages such as Python, JAVA by writing my algorithms as code
- Received various merits, laurates and recognition for succeeding at these contests

### **Microsoft Office Contest**

Jan 2016 – Jan 2018

- Participated in an MS Office international competition in the PowerPoint and Excel divisions in high school and attained a perfect score in both application's contests
- Demonstrated my self-taught knowledge of MS Office to Microsoft employees who work in close relation to these applications and received great praise
- Became a certified MS PowerPoint professional, and am permitted to teach this application by Microsoft itself.