Sadia Afrin
Software Developer

About Me

I have a logical mind with a practical approach to problem solving and a drive to see things through to completion. I'm friendly and love to help others. I am eager to learn, I enjoy overcoming challenges and I have a genuine interest in all things IT.

I have a loving family and enjoy good food. To give my best I need encouragement and a friendly workplace.

Interests

I love food, photography, DIY and interior design. Also, as geeky as this may sound, I ♥ apps. Updates are like Christmas presents to me!

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Education

BICT (Bachelor of Information and Communication Technologies) July 2015 - PRESENT

Manukau Institute of Technology

In last semester of degree (6 Months)

A+ in all papers (95% and above) & top student in 18 out of 20 papers.

Secondary and Higher School Certificate 2011 & 2013

Overseas

Achieved an A+ Grade in all subjects.

Skills

Tools		Languages and Technologies	
MVC/.NET Core (C#)	★★★★☆	Visual Studio	★★★★☆
SQL Server/PostgreSQL	★★★☆☆	SQL Server Mgmt Studio	★★★☆☆
HTML/Pug	★★★★⯪	Git/GitHub	★★★★☆
LESS/SASS	★★★★⯪	AWS	★★☆☆☆
JavaScript/jQuery & React	★★★☆☆	Docker	★★★☆☆
Bootstrap (v3 & v4)	★★★★☆	Android Studio	★★★☆☆
Java/Android	★★★☆☆	WebStorm	★★★☆☆
Node.js	★★★☆☆	Xcode	★★☆☆☆
Python	★★★☆☆	Oracle VM	★★★★☆
WPF/Windows Forms	★★★★☆	Wireshark/Nmap	★★★☆☆
Linux Shell Scripting	★★☆☆☆	Adobe (PS, AI, Animate)	★★★★☆

Experience

February 2018 - July 2018

Forsite
INTERN DEVELOPER

For my final semester, I worked at an innovative company called Forsite. I got to try my hand at everything from **Android** and **iOS** development to **React**, **Node.js, PostgresSQL, Docker** and **AWS**. T experience of working in a fast-paced **Agile** environment taught me about how an efficient team functions. By exposing me to practices like **test-driven development, pair programming, Scrum, code reviews,** and **continuous integration and deployment**, Forsite has really helped me to get accustomed to the development cycle. In return, I used my existing UX/design skills to lift their customer facing apps and pages into the 21st century.

April - May 2017
July - December 2016

Manukau Institute of Technology
TUTORIAL ASSISTANT & PASS FACILITATOR

I worked at MIT as both a **PASS (Peer assisted Study Sessions) facilititor** and a **TA (Tutorial Assistant)** after being recommended by the Programme Leader and a Senior Lecturer. I taught students in a **Python** Programming course and an **Object Oriented Programming** course. As a PASS facilitator, I held hour-long sessions twice a week where I went through the topics covered by the teacher in class and created exercises to help the students learn better. A sound knowledge of OOP was required to be able to carry this out. As a TA, my responsibilities included helping in class, creating mock tests, and assisting in marking and interviews. I also helped students outside class with exam preparation and course content.

July 2016 - December 2016

Carrick Institute
WEB DEVELOPER

The Carrick Institute provides a course called "Leap the Q". They needed a website so that students could access necessary course information. I built the website as my first job, including hosting and domain name purchasing. The fully responsive website includes advanced **HTML, CSS** and **Javascript (jQuery)** and calls out to third party APIs with **AJAX**.

Strengths

Hard Working

I dedicate at least 10 hours (7am - 5pm) in MIT every day besides the work I do at home so that I can achieve a high level of expertise and go beyond the course expectations.

I take great pride in the work I produce and strongly believe that academics is the cornerstone of a successful career. **The lowest mark I have ever received is 95/100.**

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Effective Team Player

I was a group leader for several projects at MIT and also worked under a group leader for some. My groups achieved the **highest scores in the class by using the strengths of every member effectively.**

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Quality Driven

I produce high quality work consistently and my projects have been chosen as models for future students inside and outside MIT. **One of my assignments was used as a model solution at the University of North Carolina** at Chapel Hill, U.S.A.

Leader and Mentor

Being a PASS facilitator and tutorial assistant were incredible opportunities to hone my leadership skills. I taught the class simple techniques for software development to **spark their interest** in the subject and **motivated them to practice programming regularly.**

As a tutorial assistant, I took on additional responsibilities that went beyond my job description to motivate and encourage students to stay focused.

I was selected to represent MIT's student body among a panel of students and teachers to meet with **NZQA** for a discussion on new course structures at MIT.

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Proactive

I advised teachers on revising course material after receiving feedback from students. I was able to **provide enough feedback to significantly influence decisions made by the lecturer.**

Love Challenges

I won awards for having the most students in attendance at PASS sessions amongst all other PASS facilitators at MIT. I have a reputation for being very competitive and I think **competition brings out the best in me.** I have received a **congratulatory letter from the Dean every semester,** confirming that I have **topped 18 out of 20 papers (so far).**

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Self-Organising

I created study material and real-world examples to ease students into difficult OOP concepts for my PASS sessions. **I needed to create them at the same time as my efforts to achieve high scores in my papers and freelance work.** My time was very scarce and I planned accurately to get everything done ahead of time.

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Confident Public Speaker

MIT integrates presentations in many of its papers and I've always excelled at delivering effective speeches. I have been **appreciated by my lecturers and peers for my conversational approach to presentations.**

Projects

Car Rental Windows Forms Application	Photographers' Association MVC5 Website With SQL Server
Tax Calculator Modern UI WPF Application	Themeable Rich Text Editor
Language Learning Android App	System Analysis of Courier System
HTML5 Websites	Flash Platform Game
Web-based Robotics with Smartphone	

Research

Māori Values in IT

I designed a poster and published a paper highlighting issues for Māori in IT which was accepted at the CITRENZ conference. The research was done using entirely secondary sources (mainly other papers and articles) and highlights the importance of input from Māori and awareness of Māori cultural values in IT projects. The poster is currently showcased at the Te Tuinga Whānau Trust.

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Creative Repurposing of Accessible Technologies (CRAT)

I wrote a research paper with help from John Calder, Senior Lecturer of MIT, where I took a $38 Android phone and conducted a series of experiments to find the full potential of a cheap/old phone. I did gamepad control, motion detection, video streaming, GPS tracking and speech recognition and compared high-end devices with the cheap alternative to prove the point that repurposing cheap/old phones may be the next big thing when it comes to teaching and experimenting.

References

Dr Bruce Bryant
CA-PP, FNZIM, MInstD, DBA, MBA, MTaxS(Hons).
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> " Sadia is a wonderful and smart human being who created a web site for me, expertly. She is very well liked by academic staff and students. She is a credit to her country. "

Dr Seyed Reza Shahamiri
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> " Sadia was one of my students in few of my software development courses during which she proved to be among the best students I have ever trained. Her commitment to her work is exemplary. She performed excellent in all of my courses by studying very hard, and going extra miles to complete her assignments and projects, every time coming up with new initiatives to surprise me; I use her projects as samples of best student submissions. I cannot remember she ever missed a class or being distracted. In additional to her technical skills, her communication and soft skills are superb too. I wish her all the best and am confident that she will be a very successful software engineer. "

Dr Sam Subramanian
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Senior Lecturer (Retired)
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> " I love students like you who work for 48 hours/day. Please use me as your referee when you apply for employment. I give this facility to not more than 2 students per class I teach every semester...However, they have to work towards it (like you). "

John Calder
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