

Mohamed Daniel Al Mouiee

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🌐 <https://www.linkedin.com/in/m-daniel-almouiee/>

University student currently studying a double degree of Engineering at UNSW Australia (Masters of Biomedical Engineering/Bachelor of Software Engineering). Part-time Research Associate at Vafae Lab-UNSW

Previous Employment

- **Vafae Lab - University of New South Wales** **Kensington, Sydney**
September 2019–Current
Research Associate
Utilising Google Cloud Platform to develop and deploy end-to-end deep learning systems for genomics applications. I am also contributing to projects within the genomics fields with a number of post-doctoral researchers.
- **Clinic To Cloud Pty Ltd** **Sydney City**
January 2019–July 2019
Automation Engineer
Developing testing automation frameworks for Clinic To Cloud's Practice Management Software (PMS) solution for physicians, clinics and hospitals. This involved Automated API testing using tools such as Postman, developing Python scripts and the use of CI/CD tools like MS Azure DevOps. Additionally, I used Selenium with Java and Python for to automate visual and functional testing of the company's software in co-operation with other developers from around the globe. I also worked on increasing the company's on-boarding efficiency by developing a Outsystems Solution for customers to register on-boarding information and swiftly begin using the system without the need to coordinate with the Customer Success team.
- **PicNet Pty Ltd** **St Leonards, Sydney**
February 2018–April 2018
Junior Software Engineer
My role at PicNet involved developing web systems using ASP.NET Core and maintaining databases for projects with NSW Health. This included MS SQL server, PostgreSQL as well as working with SQLite3. I have managed a small team developing a RESTful API that was used for a large-scale project involving entrepreneur and investor websites. I have also developed websites using Microsoft SharePoint and have become efficient at doing so, with both the enterprise and personal editions of the program.
- **Parramatta Community College** **Parramatta, Sydney**
2016-2018
HSC Mathematics and Arabic tutor
I worked for two years as a tutor for HSC Mathematics (General, Advanced and Extension 1) as well as Arabic of all levels (Beginner, Continuous and Advanced)

Technical and Personal skills

- **Programming Languages:** Proficient in: Java, C, Python, C#, Perl, Shell, Matlab, TeX
Also basic ability with: Maple TA.
- **AI Skills:** TensorFlow, SKLearn, Jupyter Notebooks, development of multiple Neural Network Projects (Convolutional, Recurrent, evolution learning available on GitHub), development of many machine learning projects using different algorithms.
- **Web Development Skills:** HTML5, CSS3, JavaScript, OutSystems, ASP.NET Core, Azure DevOps, Angular4, development of RESTful APIs for large scale projects.

- **Software Testing Skills:** Postman API testing, Selenium.
- **Database Skills:** Microsoft SQL Server, PostgreSQL, SQLite3.
- **Video Editing Software Skills:** Experience using Filmora and edited many videos published on YouTube.
- **Languages:** Bilingual in English and Arabic.

Highlights

- **#3** Most Popular Tutor in Macarthur & Camden in 2018 on Tutors4You.
- **#5** Most Popular Tutor in Macarthur & Camden in 2017 on Tutors4You.
- **98.8** Syrian High School Certificate mark.
- **94.5** ATAR.
- 1st in Extension Mathematics 2015.
- 1st in Standard English 2015.
- Award of Academic Excellence in Arabic Continuers 2015.
- First Aid certificate 2015.
- Barista qualification certificate 2015.
- Food hygiene certificate 2015.

Education

Academic Qualifications.....

- **University of New South Wales** **Sydney, Australia**
Master of Biomedical Engineering/Bachelor of Software Engineering, *2016–Current*
- **Al-Sadiq College** **Sydney, Australia**
Higher School Certificate, HSC ATAR: 94.5 *2014–2015*

Notable Projects.....

- **Masters Thesis project:** *'Applying Artificial Intelligence to analyse Retinal Degeneration'*
 An investigation to verify and validate the use of Convolutional Neural Networks in analysing visual features of histologically stained images of feline retinae and quantify the level of retinal damage, hence stages of blindness.
- **3rd year Group project:** *'Lion News API'*
 An API developed to extract news resources about entrepreneur ideas and provide the foundation for the analytic section of our "Shark Tank" website Using ASP.NET Core
- **3rd Year Individual Project:** *'Python to Perl compiler'*
 Individual University project developing a compiler to translate python scripts into perl
- **3rd Year Individual Project:** *'UNSWTalk Social Media Website'*
 Individual University project developing a social media platform for students using Flask
- **2nd Year Group Project** *'MyTrack Geolocator'*
 Development of a website that can track your Facebook friends in real-time using Node.js
- **2nd Year Group Project** *'Warehouse Boss Game'*
 Development of a 2D computer game pushing blocks around using Java
- The following is a link to my personal GitHub account that contains the previously mentioned projects:

<https://github.com/M-Almouie>

References

Available on Request