

# FATHY ABDEL SHAHID

## SUMMARY

Responsible and motivated student studying double degrees in Engineering and Computer Science at Monash University that is ready to apply education and problem solving skills in the workplace. Offers excellent technical abilities in software development and computer science fundamental theories and their applications, ability to handle challenging work tasks, and excellent time management skills and interpersonal skills. Can quickly memorize product details and build customer relationships. Dedicated to prompt project completion and continual adaptation. Team-oriented collaborator with reliability and focus on equitable task distribution through group projects and motivation to accomplish mutually held goals.

## EXPERIENCE

### Web Application Design

ENG1003

#### Transport Hiring Web App - Team Size: 4

- Using JavaScript and Html/CSS to create an app to book a commute service either by sedan motorcycle or a van, where price would vary based on the choice and the kilometres between the two chosen destinations (has the GPS option of using the user's location)
- Translating user-stories into user flows, wireframes, and prototypes to promote positive intuitive designs, site interactions and user experiences.
- Creating and using API keys to access GeoMaps to locate users based on their IP address using their internet provider and panning and tracking.
- Using API keys and local storage to save user inputs and trip history on the device and web server.

## CONTACT

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3038

## LANGUAGES

### English:

■■■■■  
Native/ Bilingual

### Arabic:

■■■■■  
Native/ Bilingual

### Italian:

■■■■■  
Limited

## EDUCATION AND TRAINING

### Bachelor of Engineering (Hons) & Bachelor of Computer Science

Software Engineering

Monash University,

Melbourne, VIC

- Projects details are available upon request.
- Expected Completion Dec 2025

## Task List for Scrum Managed Teams Web Application: - Team Size: 6

- Working under Scrum methodology management.
- Using GitHub to collaborate with team members.
- Communicating with clients to collect user-stories through every sprint.
- Exchanging roles between Scrum Master & UI/UX specialist & product owner.
- Receiving feedback from the client about the product and reflected upon it in the new sprint.
- Using API keys and local storage to save user inputs.
- Collecting data and displaying story points in graphs to help representing productivity clearly on a sprint.
- Developing Instances for staff, tasks, sprints, and time taken to complete Tasks.

## Virtual Waiting Room: - Team Size:1

- Creating a virtual waiting room where users can wait to be let in using JS HTML and MDL libraries.
- Managing implementation algorithm using an ADT (queue),
- Using API keys and local storage to save user inputs like name issue and email, saved multiple instances.
- Handling multiple users as they can join the queue once it's their turn a randomised code is send (representing the zoom link) is displayed for them kicking them out of the queue. (Available upon request).

## Game Development

*FIT1008/FIT1045*

### Strategic Game Development - Team Size: 1

- Using Self programmed AI libraries and Python to develop a game prototype based on ideas from the infamous Pokémon battle game mode design.
- Developing the Big O Calculation to ensure the produced algorithms and functions are not larger than  $O(n^2)$ .
- Implementing AI when choosing the battle mode to fight the "PC", where the developed AI behaviors picks random Pokémons to assign to its team based on the Pokémon's rareness.
- Facilitating Object oriented programming where instances,
- Using of Abstract Data Types (ADT), stacks, and queue to implement the order the characters attacking/ defending based on the game's chosen mode.

## High School Diploma

Essendon Keilor College,  
Essendon, VIC

- Senior school captain in 2020
- 3.9/4 GPA
- Captain of the school soccer team in years 2017/18/19
- Part in the y-program, which entailed volunteering to help at a local primary school and helping people with a disability.
- Recipient of multiple Academic awards (Available upon request)
- Completion November 2020

## SKILLS

- Data Generation
- Experienced With VsCode, PyCharm
- Website Analytics
- Back-End and Database Development .Front-End Programming: HTML5, CSS3, AJAX
- Scripting Languages: PHP, Python, JavaScript
- Front-End Skills: HTML, CSS
- Version Control Systems: Git, GitHub
- User Experience Design
- Analytical Thinking
- Complex Problem Solving . JavaScript Libraries and Frameworks
- Oral and Written Communications

## **Pattern Matching and Searching Algorithms**

*ECE2071*

### **Algorithms to find Palindromes: - Team Size: 1**

- Using C language programming, an ADT was developed to look to look through the 50 million decimal number given.
- Highlighting every palindrome related it to its lengths to set up a synchronised display and where the sum of the palindromes based on their lengths.

## **Data Analysis and Representation**

*MAT1060*

### **Data Analysis and Representation: - Team Size: 1**

- Using MATLAB open and read large complex data files.
- Presenting data in visually appealing and simple methods for end users to navigate and comprehend.
- Generating standard or custom reports summarizing gathered data.
- Analyzing and tracking data to prepare forecasts and identify trends.
- Using statistical analyses to find patterns from data and identify improvement in the collected data.
- Maintaining library of model documents, templates, or other reusable knowledge assets.
- Developing visualizations such as graphs to convey complicated data in straightforward fashion.

## **Machine Learning Development FIT1008**

- Implementing deep learning practices in MIPS.
- Manipulating data types from hex to decimal to binary
- Cleaning and manipulated raw data.
- Establishing scalable automated processes to develop, validate and implement machine learning models.

## **SKILLS**

- Office Equipment Operation
  - Document and File Management
  - Schedule Management
  - Very Approachable and Social
  - Public Speaking
  - Creative problem solver
  - First aid Trained.
  - Working with children check
- (Available upon request)

## **HOBBIES**

- Playing Soccer
- Developing iOS mobile applications
- Social Runs
- Harry Potter and Marvel Fan
- Video gaming

## **VOLUNTEER**

School: Y-Program, helping people with a disability learned sign language and helping in the community assisting local schools in classes i.e., tutoring. St. George Coptic Orthodox Church, St Albans: Currently a servant for grade 4s/7s: giving bible stories and helping organise outings/sports activities Help organize fates and social events for church as well as maintaining the church.

# WORK EXPERIENCE

## Sales Associate

*Footlocker | QV, VIC | August 2018 - Current*

- Building and maintaining relationships with peers and upper management to drive team success.
- Quick problem Solving
- Using technology resources to assist customers in locating and selecting items.
- Working with fellow sales team members to achieve group targets.
- Obtaining signatures for financial documents and internal and external invoices.

## Head Coach

*Avondale FC | Essendon | January 2022 – January 2023*

- Observing health and safety guidelines and protocols during practice sessions and game to help players avoid injuries.
- Guiding team through difficult situations, player injuries and tough losses.
- Encouraging athletes, fellow coaches, and parents to engage in good sportsmanship with competitors.
- Running drills and fitness circuits to improve athletes' coordination and skills.
- Assessing player abilities and assigned positions according to individual strengths.

## Receptionist

*101Physio clinic, Melton/Hoppers Crossings | June 2022 – December 2023*

- Supervising setup of conference rooms for meetings and office events in common areas.
- Maintaining client accounts by obtaining, recording, and updating personal and financial information.
- Transmitting information or documents to customers through email, mailings, or facsimile machine.
- Scheduling space or equipment for special programs, meetings, and conferences.
- Answering multi-line telephone with polite tone of voice to provide general information and answer inquiries.

*St. Luke's medical centre | St. Albans | May 2018 - May 2018*

- Supervised setup of conference rooms for meetings and office events in common areas.
- Maintained client accounts by obtaining, recording, and updating personal and financial information.
- Transmitted information or documents to customers through email, mailings, or facsimile machine.

## REFERENCES

- **Simon McSorley**  
<simon@wearecrew.io>

More REFERENCES are available upon request.