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## Personal Statement

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Currently pursuing an undergraduate degree in Computer Science at the University of New South Wales, seeking entry level work experience in the software industry.

## Education

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**University of New South Wales (UNSW)** [Feb 2018 – March 2021]

- Successfully completed 2<sup>st</sup> year in B.Sc. Computer Science

**Sunbeams School** [Aug 2015 – Aug 2017]

- Pearson International Advanced Level ( IAL ) – 1 A , 2 B's
- International Certificate of Secondary Education ( IGCSE ) – 7 A's

## Work Experience

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- Tutored grade 7 & 8 chemistry students at Sir John Wilson School, Dhaka, Bangladesh
- Interned as a junior backend developer at **Macrovue Pty Ltd** (29<sup>th</sup> Nov – 18<sup>th</sup> Jan)

The company's main technology stack is currently based on **Django** for backend and **Angular JS** for frontend. The company aims to migrate to a **GraphQL/React** stack in the near future.

As an intern, I was tasked with maintaining certain sections of the website as well as implementing more functionality into the platform. As such, I have a firm grasp over the MVC architectural pattern. My work demanded quick thinking and being able to provide solutions to customer complaints with regards to the website. My greatest take away from this internship was the exposure to the fintech industry and how it works.

## Soft Skills

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- **Multilingual** – I speak and write fluent English , Bengali and Hindi.
- **Team player** – I thrive under a team environment and am always willing to close as many tickets as possible for the team.

- **Effective communicator** – My effective communication skills ensure that I am always up to tabs with the team and our current agenda. I always communicate with my peers so as to help us brainstorm ideas and find optimal solutions to problems.
- **Effective time management** – I always plan ahead of time to ensure goals are met every iteration so that the team never misses a deadline.
- **Leader**- At both work and university, I have assumed the lead developer / lead system design role on many occasions. I do not hesitate to take the reigns when called upon. I possess the level-headedness and composure required to ensure deadlines are met and that the project lifecycle progresses smoothly.
- **Fast learner**- I am extremely passionate about software development and love what I do. I am always on the look out to learn the next 'best' thing – whether it be a new language or framework. Hence, I am very quick at acquiring a new skill set. I effectively self-taught myself every framework I know.

## Technical Skills

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- **Language proficiency** – I am proficient in **C, Python, Java, JS, SQL** and as such am well acquainted with the principles of procedural and O-O programming.
- **Web Development** – I have developed web applications at both work and university using various web development frameworks such as **Django, Firebase, Flask & Tornado** and as such am well versed with the **MVC** architectural style of app development. My go to choice for a frontend web framework is **React**. At university, I was the designated tech lead working across the full stack for our capstone project which involved developing a deploying a **Django-React** application.
- **Expansive knowledge regarding data structures and algorithms** – Familiar with the implementation of various ADT's such as Graphs (Adjacency Matrix/Adjacency List), BST's, Hash Tables and linked lists as well as algorithms such as Dijkstra, BFS, DFS etc.
- **Familiar with various RDBMS** – Primarily MySQL, MongoDB & PostgreSQL.
- **Familiar with Linux distros** – Familiar with UNIX-like systems.
- **Agile Development** – At university and work, I have been involved in making agile software and as such can effectively respond to evolving requirements.
- **Proficient in requirements engineering** – Familiar with the use of epic/user stories, UML diagrams and other software related documentation. Furthermore, I am experienced in using various issue tracking software (such as **JIRA, Confluence** and **Bitbucket**) used by development teams.
- **Acquainted with Test Driven Development** – At work, I was required to test my code as I wrote it and hence I am familiar with writing different test suites (boundary-testing, equivalence testing) using **pytest**.
- **Data Analytics (Machine Learning)** – Familiar with many data science concepts (such as machine learning for predictive analysis) and as such can employ them

to analyse datasets when required. Familiar with the use of libraries such as **scikit-learn** and its applications.

- **RESTful API Service, Design & Implementation** – Experienced in developing and designing REST API's.
- **Effective User of Git** – Proficient in using Git Version Control.

## Projects

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### Macrovue (AU)

(<https://www.macrovue.com.au/>)

Interned as a junior backend developer at Macrovue. Macrovue is an Australian owned and operated online-broker based in Circular Quay that provides financial advising and other services via their platform. Investors can search , analyse and trade over 20,000 shares and ETFs across 23 exchanges (including the ASX) via their platform.

### GhaziDB

<https://github.com/farhanghazi97/GhaziDB>

Custom Management System (CMS) application being developed for Ghazi Commodities Limited. This is a personal project that I am currently working on to aid my father in running his family business. This multi-purpose application is meant to automate the workflow of the business. To be deployed as a React-Django app.

### Healthcare Management System (HCMS)

(<https://github.com/farhanghazi97/Heathcare-Management-System>)

An appointments system to book in registered patients to consultations , allowing them to access healthcare services from a network of healthcare centres. Made using Flask, HTML, CSS & the Jinja2 template engine.

### Link State Routing Protocol

(<https://github.com/farhanghazi97/Link-State-Routing-Protocol>)

Bare-bone implementation of the OSPF variation of the Link-State Network Routing Protocol.

### DungeonCrawler

<https://github.com/farhanghazi97/DungeonCrawler>

Classic arcade-style "Dungeon Crawler" game implemented as a JavaFX GUI application.

## **MyShell**

(<https://github.com/farhanghazi97/MyShell>)

Minimalistic Implementation of the Linux Shell – Bash – written in C.

## **Social Network Analysis (SNA)**

<https://github.com/farhanghazi97/Social-Network-Analysis>

A project involving performance analysis of a social network by employing various data mining techniques such as centrality measures to extrapolate "influencers", "followers" and "communities" that exist within the network. Implemented entirely in the C programming language, making use of various self-written ADT's.

## **Selective Interests**

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- Musician (<https://soundcloud.com/farhan-ghazi>)
- Reading
- Volunteering
- Athletics
- Soccer
- Technology enthusiast – I am an avid techie and love to read and stay up to tabs with the latest tech out there (my favorite sources are TechInsider , Verge , ARSTechnica etc).

## **References**

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Available Upon Request