

Farhan Sattar Ghazi
Bardia – NSW – 2565
farhansghazi@outlook.com – +61432021960

Personal Statement

A highly enthusiastic individual whose soon to graduate from the University of New South Wales (UNSW) with a B.Sc in Computer Science, seeking work in the software industry.

Education

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

- En route to graduate with a B.Sc in Computer Science (current WAM – 70)

→ Sunbeams School [Aug 2015 – Aug 2017]

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

Work Experience

- Tutored grade 7 & 8 chemistry students at Sir John Wilson School, Dhaka, Bangladesh
- Interned as a junior backend developer at [Macrovue Pty Ltd](#) (29th Nov – 18th Jan). The company's main technology stack is currently based on Django for backend and Angular JS for front-end. 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 adding 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 as well as how a first look into how commercial software is developed, tested, deployed and maintained.

Soft Skills

- **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.
- **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.
- **Proper 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 levelheadedness and composure required to ensure deadlines are met and that the project lifecycle progresses smoothly.

Technical Skills

- **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 front-end 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 of DS&A** – 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.
- **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 Analysis (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

I personally believe that projects are the best way to demonstrate one's skill set. The following list of projects demonstrate the entire spectrum of technologies I am familiar with and my level of proficiency in using them:

My Portfolio Application (<http://farhansportfolioapp.herokuapp.com/>)

My own personal website set up as a means to allow any prospective client to get in touch with me and/or learn more about me and my work. Deployed on Heroku as a Django-React application.

University Capstone Project (<https://github.com/unsw-cse-capstone-project/capstone-project-assembly-gang>)

Developed a full-fledged online book cataloguing platform that provides users with the ability to receive book recommendations, manage their own personalised book collections and leave reviews and ratings for books they have read. Developed over a 3-month period using an Agile methodology of development.

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

Content 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.

Text Classification using ML Techniques (<https://github.com/farhanghazi97/ML-Text-Classification>)

Given a corpus, developed several supervised machine learning models such as Multinomial Naive-Bayes, Multi-layer Perceptron and Convolution Neural Networks that were trained on a subset of the corpus data, and then tasked with doing topic classification on unseen data.

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.

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

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

Healthcare Management System (<https://github.com/farhanghazi97/Healthcare-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.

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.