

Since childhood, I have been fascinated with computers and have constantly wondered about the software that direct the functioning of computing systems. My undergraduate program helped me build a strong foundation in the subject and I got immense hands-on experience through my undergraduate research projects. However, it wasn't until I started working that I was able to draw suitable links between the theory concepts that I had learned in college with my practical experiences in working on company projects. Having worked in both administration and development departments, I found myself heavily inclined towards programming and what started out as mandatory programming tasks turned into a deep passion for web development. In order to explore my new-found passion, I participated in several Hackathons through which I developed in-depth expertise in Python programming language. As my projects became more and more advanced, I realized that I needed to know the perfect way to use codes and algorithms to avoid getting a lot of bugs in my programs. Hence, in order to achieve an amalgamation of theoretical and practical knowledge in the field and to acquire expert knowledge of software development, I wish to pursue a postgraduate education in Computer Science.

Being fascinated with software since a young age, I have always wanted to work in the field of software development trying out new functionalities and learning new programming languages. In order to take the first step in my journey towards becoming a software developer, I decided to pursue my undergraduate studies in Computer Science and Engineering. During this period, the subject I found most interesting was Web Technology where I enjoyed working on user interface development. It was quite exhilarating to try out new designs using HTML and CSS, and validate the designs using JavaScript. Through this course, I got the chance to learn different programming languages and technologies used for web development.

Eager to practically implement my knowledge of web technologies and Java, I decided to develop a time table generator system which could automate the process of creation of a time table. This web application had three login screens for admin, students, and faculty where the admin could manage the time table, faculty could view and update the data in the time table, and students could view the time table. The pages in the application were created using HTML, styled using CSS, and for the login pages, JSP was used to pass on information to the Java class and XML was used for servlet mapping. The data was eventually sent to Java Beans for validation and querying the database and output was returned to the Java class which used JSP to display the data to the user. The hosting of the web application was done using Tomcat web server. Initially, I faced several challenges while setting up form validations, for instance, giving an alert if more than three classes of the same subject was repeated per day, and in such scenarios, my team members and I worked together to scrutinize the code and solve the problem. Through this project, I developed a strong technical skill set in developing and hosting web applications using various web technologies such as Netbeans IDE, HTML, CSS, JavaScript, Apache Tomcat, and MySQL. Apart from this, working in a team helped me develop strong communication skills, learn how to divide tasks based on individual strengths, develop time management skills, and learn how to be a good team player.

After this project, I wanted to diversify my skill set and acquire knowledge of authentication systems, and so I undertook a project where I validated users through a three-level authentication system using text, images, and colour pixels-based passwords. This project not only gave me an opportunity to understand the principles of cybersecurity but I was also able to learn a new programming language, C#. As this was also a team project, I was exposed to intense team dynamics and I learned how to work collaboratively to achieve project objectives. Apart from this, I have undergone a certification training from Oracle and I am now recognized as an Oracle PL/SQL Developer Certified Associate. This training has helped me learn about a widely used industry-level software development platform and I have had the chance to explore its applications in large organizations.

After completing my undergraduate studies, I wanted to take up a job in the domain of technology in order to develop a well-rounded skill set. At this time, the company Gap Inc was just opening a branch in India and I saw this as a good opportunity to learn the basic processes involved in establishing a company. Also, as this was a product-based company, I was interested in learning about the various technology platforms and tools used for web and application development projects, and so I started working here on projects that involved using several different modules and latest technologies.

Initially, I started out with working on an ITSM tool, Service Now, focusing on both administrative and development tasks. As this was a new company, I was the only person working on this project and I directly reported to my manager. Despite the many knowledge transfer sessions I had with my manager, most of my learning was experiential and I mastered two modules, Service Catalog and Reporting, becoming the sole troubleshooting contact for these modules for the clients. As my knowledge and experience with this project grew, I took the initiative to propose enhancements such as streamlining the asset management process and creating catalogs for resource collection. One of my outstanding accomplishments is proposing an Automated Test Framework, and despite facing several issues I managed to overcome them and complete the development of this framework.

In retrospect, not only have I contributed heavily for the development of my project but I have also learned immensely, both technically as well as being accountable for my tasks and taking on active leadership roles in my company. Now, having moved on to a new project, I feel confident that I will be able to learn all the modules and take the project to an enhanced level of advancement. Having worked on both admin and development aspects of a project, I feel heavily inclined towards programming and I wish to fulfill my lifelong dream of working as a software developer by pursuing a postgraduate education in Computer Science. After completing my higher studies, I would like to work in the field of software development as a full-stack developer where I provide end-to-end services for developing applications. Eventually, I wish to acquire more knowledge of the domain of Artificial Intelligence and integrate these concepts in my development projects.

In order to fulfill my goal of developing software and applications, I wish to take up a postgraduate program in Computer Science at _____ University. The numerous research projects that I have worked on during my undergraduate and work periods have given me a strong command over the concepts. I now wish to deepen my understanding of the field and become up-to-date with the

most recent trends in the field of software development. I intend to acquire a strong technical skill set by pursuing several exciting and challenging projects at your state-of-the-art research facilities. Being guided by accomplished faculty such as _____ and _____ at your premises will help me take my projects to the next level and acquire a more comprehensive understanding of the field.

My experiences in using my knowledge and skills for research projects in my field of interest have given me a strong knowledge of my subjects, and I am confident that my aptitude and passion for the field will help me stand out at your campus.