

Carl Saptarshi

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Personal Statement

I am currently approaching the end of my second year at the University of Exeter, completing a degree in BSc Computer Science, and would like part time work whilst I complete my studies. I am a punctual, hard-working, reliable, dedicated individual with a friendly attitude and enthusiasm to work to the best of my ability for any task given to me. Through my first year studying at Exeter University, I have shown that I am dedicated to achieving the best results possible, through constant hard work, individually and with others. This allowed me to achieve a 2:1 in my first year. I have gained experience in the workplace, working as a part of a team as well as being a project leader throughout my internship last Summer, making sure that I met the deadlines to the best of my ability. Through volunteering at my local library and the charity organization, MENCAP I have shown that I have confidence in interacting with the public, maintaining a friendly and enthusiastic attitude at all times.

Experience

Sheorey Digital Systems –Java Programming Internship

June – August 2015

- For two months over the Summer period, I had the opportunity to work at Sheorey Digital Systems in India – an aviation technology solutions company. I worked as the project leader as part of a team of people, and as project leader I was responsible for designating tasks and reviewing the progress of the other members of the team. In turn, this also allowed me to ensure that the tasks at hand were completed to the best possible standards for the deadlines given. This gave me experience with working with people of different abilities, as well as allowing me to gain experience in a working environment.

HTLeather – Henry Tompkins

April 2015

- I worked for HTLeather in distribution management. This involved packaging the products that were made into appropriately sized boxes and making sure the products were sent and delivered on time. I also helped with customer support, calling distribution companies and courier services to ensure the products reached the consumer.

YouTube Contributor

2013- Present

- This is an ongoing project of mine in which I make video tutorials for programming for beginners as well as leading up to more complex programs. This has taught me to find different ways to explain solutions to problems and offer understandable methods of how to write these programs. It has also allowed me to interact with pupils to help them fix their code when they encounter problems they cannot fix. The programming languages taught include HTML, Python, Java, (published to YouTube) and now, PHP, JS, and basic MySQL (to be released shortly with phpMyAdmin).

My Projects at University:

Web Development:

- One project involved developing a front end game “Top Trumps”. This used HTML and CSS for design components, and JavaScript, along with AJAX, to connect and interact with server components where the cards for the game were stored. D3.js technologies were also used for graphical representation of the individual cards.
- Another project involved developing a backend demo-version of a book store website. As this was a server-side project, PHP and MySQL were used throughout. As part of the project, I had to ensure that I was able to prevent any SQL injections, and use secure methods of data transfer via HTTPS. This also included book

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selection, registration and login system (using PHP calls to a server), categorization, use of baskets, and full payment simulation, as well as incorporating the MVC to increase readability and modularity.

Java and Object Oriented Programming

- I have been learning java as part of OO Programming, Software Development and Software Engineering. Projects included creating a stock checking system similar to a system that any store would use. I have also created a game using multithreading which is played continuously until there is exactly one winner. In my spare time I make Java programming tutorials on YouTube, covering the basics of OO in Java, taking basic ideas and developing on them throughout.
- I completed a project working as part of a SCRUM team as the Product Owner, using the Agile method of software development over four sprints. This team project was to create a simulation of the YAMAHA TENORI-ON Sound System using Java. As the product owner, communication with the team was key. I made sure that I attended all daily SCRUM meetings, overlooked the code that was written by myself and the other developers, ensured that all members were working together cohesively and any issues were resolved during the meetings, and made sure the goals that were set were reasonable and achievable. This project involved being given a specification, and adhering to all of the tasks at hand for each sprint. Junit testing was also involved throughout, making sure we accounted for any errors that could arise during the development process. During this entire process, we used a GIT repository to store our code base, and commit changes when working, rollback when needed and pulling all updates whenever working on the system before making any of our own changes.

C Programming

- I had to create a basic queuing system using the ideas of queues in addition with linked lists. This project involved using queue implementations and the use of pointers and pointers to pointers in order to take in input from the command line, create some amount of queues depending on the user input, and add or remove from each queue depending on the text files used. On top of this I had to also account for any possible errors that could have been caused when reading in files, incorrect input on terminal and errors during the execution of the program.

Programming Skills Learnt

- Proficient in: HTML, CSS (3), JavaScript (including AJAX and D3), PHP, SQL, JAVA.
- I am Currently teaching myself Android for Android Application Development.

Education:

University of Exeter – BSc Computer Science, year 1: 2:1

2014-Present

St John Payne Secondary School (A levels)

2012-2014

- A levels: Geography (A*), Mathematics (A), Biology (C), General Studies (B)

Westcliff Grammar School for Boys

- GCSE's: 12 A*-B grades (including Mathematics, English and Sciences)

Hobbies and Interests

- I have been playing badminton for 2 years at club level and continued through to play at university. I currently play for 3 clubs which I attend every week. I also am part of the University of Exeter Badminton Team. In my spare time, using the skills I have developed, I am redesigning the front and back end for the club's website which will be launched this September. I took part in a French exchange program, during which I had the opportunity to study in a French college in Nice over the summer of 2013. In addition, I represented Essex at bowling for five years, in which we won the Nationals two years in a row for the under 18's. In my spare time I also play the drums and gym. I also have my own website (www.carlsapty.com).