

September 2, 2021  
Job Role: **Entry-level Java Developer**  
Beaconfire Corporation  
Princeton, NJ

To the Hiring Committee,

I am writing to apply for the position of Entry-Level Java Developer at Beaconfire Corporation. I am from Nepal, currently a final year undergraduate student, majoring in Computer Science and minoring in Management, at Webster University, St. Louis. I am graduating in December 2021. I will be briefly explaining my knowledge and experience in the field so far in the rest of the letter.

I interned as a front-end web developer for a fire emissions visualization project (November 2020 – March 2021). This internship gave me the opportunity to implement my HTML, CSS, and JavaScript knowledge to build a live website, and have first-hand experience with front-end web development. I collaborated with another intern for this project that gave me a chance to build my team-working skills. On February 2<sup>nd</sup>, we presented our work in the Asia Pacific Advanced Network (APAN) conference: <https://webster.ac.th/news/2021/visualizingfire.php>

Apart from allowing me to practically implement my programming, researching, and designing knowledge to improve my problem-solving skills, this internship has allowed me to work in a team and enhance my communication, collaboration, and presentation skills. From brainstorming and implementing design ideas using CSS and bootstrap framework, to using JavaScript to program interactive features, I enjoyed every stage of my front-end web development experience.

I first got introduced to programming during my International Baccalaureate Diploma Program (IBDP) (2017-2019). I was fascinated by how programming allows us to write algorithms and codes in our computers to efficiently automate the performance of real-world tasks. My first programming project was during my IBDP where I used Java to develop an interactive software for 3<sup>rd</sup> graders that allows the teacher to quiz them, reward them, and generate question papers for them.

I have been enthusiastic about programming ever since my IBDP, and that motivated me to choose Computer Science as my degree. During my undergraduate degree, I have built (1) a Web Application using HTML, MySQL, and PHP (using bootstrap framework), (2) an RSA Cipher Prototype using Python, and (3) interactive Data Structures prototypes using C++. Apart from making my passion for programming grow, these projects helped me realize the importance/necessity of self-learning in the IT field. I have done several online courses to learn more about Python, JavaScript, and React that has helped me understand these concepts in depth.

My internship (fire emissions visualization project) experience has enhanced my skills of collaborating and communicating my ideas effectively with both my teammates (in IT field) and the employers/collaborators (outside of IT field). Similarly, my university projects pushed me to do my own research and familiarize myself with concepts that were extremely new to me. My computer science degree courses allowed me to learn Data Structures in depth to understand ways of efficiently optimizing the speed and scalability of our programs. The online courses that I pursued on my own allowed me to explore further and advance my knowledge. The self-learning habit that I have acquired is making me a fast learner and helping me stay up-to-date with the latest technological advancements.

Above all, I am eager to learn new things from this job that expand my knowledge and experience in Software Development. I believe the experience and knowledge that I have gained from my internship, my computer science course, the online courses, and my self-learning habit has prepared me well to deliver what you are looking for in this position. I look forward to hearing back from you!

With thanks and my best regards,

Pragati Kharel

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