

Dear Hiring Manager,

**Software Summer Intern AIRY3D Inc Montreal**

As a computer science student at UBC I have learned about and applied fundamental steps of machine learning, decision trees, probabilistic classifiers such as Naïve Bayes, non-parametric models such as K-nearest neighbors, ensemble methods, clustering, principal component analysis and neural networks. I have also had the opportunity to design relational databases in Oracle and MySQL. In addition, I have had several opportunities to practice writing clean, reusable code through identifying code smells, refactoring, and compliance with SOLID and REST API principles.

I have had the opportunity to apply and build upon my software development skills as an agile developer intern at SAP. I have gained familiarity with troubleshooting bugs, handling customer support cases and writing efficient and readable code for enhancement of the SAP analytic cloud web application. I was also exposed to the use of Arduinos and the Raspberry Pi mini computer as I joined the D-shop group at SAP and am currently working on building a light up piano with BareConductive devices.

At UBC I developed a Tournament scheduling application in collaboration with five other students which was hosted on Amazon Web Services. The application was developed using Spring Boot and Java on the backend, TypeScript and React for the front end and MySQL for database functionality and queries. A greedy algorithm was used to match users based on weekly availability and skill-level.

My experiences in the Biotech Industry required me to exercise several skills that are transferrable to a software developer role including time management, problem solving, prioritization of tasks, active listening, attention to detail, flexibility, and clear communication. In addition to applying technical skills and background knowledge to design and troubleshoot experiments, biotech researchers are required to effectively communicate their data, prioritize experiments, rapidly shift those priorities based on direction from upper management, coordinate with other departments including Quality Control and Production to obtain materials and equipment for experiments, identifying and consulting in-house experts for assistance on certain tasks and contacting vendors to obtain resources at discounts and in a timely manner.

This opportunity at AIRY3D Inc would allow me to apply and build upon core skills I have acquired through my degree program and gain valuable industry experience. Thank you for your time and consideration,

Abigail Moraes