PATRICK ERATH

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OBJECTIVE

As electrical engineering student with one semester left until graduation, I am looking for an internship starting in May 2020. I am extremely passionate about project management and am eager to join a company which allows me to grow and learn new skills.

EDUCATION

Bachelor in Electrical Engineering   September 2016 - December 2020
McGill University (GPA: 3.5/4.0)   *Montreal, Canada*

International Baccalaureate   January 2014 - May 2016
American School of Paris (CGPA 3.93/4.2)   *Paris, France*

WORK EXPERIENCE

Backend Software Developer   May - August 2019
Siemens AG   *Bad Neustadt, Germany*

· Implemented data science algorithms into Java and Python code to analyze big data from CNC Machines
· Developed code to filter and perform computations on raw CNC data in order to facilitate real-time error detection
· Contributed to the creation of a error detection application currently used on Siemens factory CNC machines

Business Analysts Intern   June - August 2018
Laboratoires Servier   *Paris, France*

· Worked with a team of five engineering consultants to develop a cloud-based business intelligence platform
· Analyzed large amounts of financial and pharmaceutical data to create visualization trends for dashboards
· Resulted in the development of a program which gave company-wide access to real-time pharmaceutical data.

TECHNICAL SKILLS

Programming Languages	Extensive Experience in: Java, Python, Linux, HTML5, CSS3
	Moderate Experience in: JavaScript, TypeScript C, SQL, MatLab
Other Programs	MS Office, Microsoft Power BI, Git, Spring, Maven

Languages	Fluent in English, French and German.

SOFTWARE PROJECTS

Object Recognition Application   September 2019 - Present

· Working alongside three engineers to develop an application capable of detecting objects from images in google maps
· Implemented the authentication server and the web scrapper to download images based on user requests
· Designed the pipeline software flow along with the different technologies that the application will use

Autonomous Retrieval Robot   September - December 2018

· Worked alongside six engineering students to design and build an autonomous retrieval robot
· Using Java, the robot was programmed to localize itself, navigate through a closed course, and finally retrieve rings
· I was assigned as testing leader, thus I programmed and tested multiple hardware components such as light sensors, odometers, and ultrasonic sensors.
· Our teams robot was successful in retrieving rings and won second place at the DPM Robotics Competition

Peer Tutoring Website   May - August 2018

· Built a website to help facilitate peer tutoring at McGill University by providing a social platform for students and tutors
· Developed the front-end and back-end using multiple javascript libraries such as NodeJS, ExpressJS and Bootstrap
· Deployed the website on Heroku servers and used MongoDB to store data

LINKS

GitHub	https://github.com/Patrick-Erath
LinkedIn	https://www.linkedin.com/in/patrick-erath/