Bogdan Constantinescu, BASc

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EXPERIENCE

Active Learning Technician - Technical Services Team
University of Calgary

01/23 – 5/23
Calgary, AB

- Prepared lab equipment, conducted demonstrations, and guided students during experiments.
- Collaborated with instructors to develop active learning initiatives aligned with the curriculum.
- Offered technical support for students for 3D Printing, as well as arduino programming.
- Documented lab procedures, managed inventory, and ensured compliance with safety standards.

Project Management
XpertONE LTD.

12/19 – 09/22
Kitchener, ON

- Manage total construction process from initial planning to project completion.
- Analyze project risks to mitigate their impact throughout the construction project lifecycle.
- Prepare estimates and manage procurement processes.

Test & Process Engineer - Commissioning Team
Angstrom Engineering

02/18 – 08/18
Kitchener, ON

- Tested & operated thin-film deposition equipment for PVD and CVD.
- Developed test processes for high volume custom coating applications.
- Created a custom VBA program to automate the creation of commissioning forms used by all process engineers.

Mining & Metallurgy Researcher
Kingston Process Metallurgy

09/16 – 04/17
Kingston, ON

- Designed and implemented simulations in Python for the development of a copper settling model.

EDUCATION

University of Calgary
Master of Engineering - Software Specialization

Calgary, AB
05/23 – 04/24

University of Waterloo
Bachelor of Applied Sciences in Nanotechnology Engineering - Co-op, Honors

Waterloo, CA
09/14 – 04/19

Delft University of Technology
Masters in Chemical Engineering, International Exchange

Delft, NL
09/17 – 01/18

PROJECTS

Full Stack Flight Reservation Web App | *Java, Javascript, MySQL, React, Node.js, Spring Boot* December 2023
- Developed a fully functional flight booking web application. Available to view on my personal Github page.
- Implemented the MVC architecture to accomplish this using React for frontend, Java, and MySQL for backend. Used Spring Boot for interacting with backend and Node.js for interfacing with frontend.

Financial API & Excel Plug-In | *C#/.NET* January 2024 - April 2024
- Developed and implemented a versatile financial data API utilizing ASP.NET, optimizing MongoDB for storage, leveraging an in-memory cache and employing HTTP for secure and scalable data access, meeting specific business needs.
- Created an Excel plugin allowing seamless integration with the API, providing non-technical users the ability to extract time series data efficiently. Implemented using ExcelDNA.
- Successfully deployed the app on Microsoft Azure, showcasing expertise in cloud computing.

TECHNICAL SKILLS

Languages: Java, Python, C/C++/C#, SQL, MATLAB, Javascript (Node.js)
Frameworks: Spring Boot, React, Scikit-learn, Apache Hadoop, Apache Spark, Tensorflow, PyTorch
Developer Tools: Git, Docker, PyCharm, VS Code, Eclipse
Relevant Courses: Advanced System Analysis and Software Design, Advanced Software Design and Architecture, Engineering Large Scale Data Analytics Systems, Machine Learning for Software Engineers, Databases and Database Design, Data Mining and Machine Learning, Dependable and Reliable Software, Intro to Self-Driving Cars