

DAVID BALADI

I am an electrical engineering new graduate with a background in neuroscience and programming. I have a passion for implementing industry-standard intelligent software technologies that automate workflows to increase company productivity and profits.

TOP SKILLS:

SAP Ariba

Software/Hardware Engineering

Data Programming

Medical Terminology

Microsoft Access/Excel

CITY:

North York, ON

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PROFILE:

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DATA ANALYST PROGRAMMER

Experience

Ontario Power Generation, Pickering, ON
Web Catalogue Database Programmer Intern
August 2018 – August 2019

- Increased inventory transparency by constructing MS Excel and Power BI dashboards that pull live server data (SQL Server Management Studio (SSMS) stored procedures, bash scripting, Python, VBA and SQL).
- Acted as intermediary between end users and industrial distributors for catalogue (SAP Ariba) product sourcing and purchase orders of up to \$40,000: Acklands-Grainger, Charles Jones Industrial Limited, Rexel.
- Developed custom MS Excel macros, resulting in reduced time required to fulfill daily IT responsibilities by 400%.
- Implemented new SQL comparison algorithms to increase detection accuracy of product screening tool by 25%.
- Data support for supply chain operations in the form of MS Access querying and database construction, in-depth product safety research, and ad hoc reporting to corporate stakeholders.
- Assisted in the designing of the company website (HTML, JavaScript, CSS, PHP, back-end programming and click-drag functionalities).

Capital Health, Halifax, NS
Early Psychosis Program Research Assistant
May 2009 – November 2011

- Coordinated with physicians and research partners daily to approach prospecting patients regarding their interests in becoming study participants.
- Collaborated with fMRI technicians to conduct olfactory brain testing on human participants.
- Assembled and administered time-condensed cognitive test batteries.
- Prescreened study participants and trained new research assistants.
- Poster presentations, literature reviews and amendments (REB submissions, research papers, consent forms).

Ryerson University, Toronto, ON
Capstone: Autonomous Fetching Robot
August 2019 – April 2020

- Solely developed the artificial intelligence for a home-care robot assistant, making it capable of retrieving target objects for specified patients.
- Programmed Raspberry Pi 4 Model B (Linux-based system) to transmit video footage to a Windows 10 server laptop across a TCP socket-programmed network (Python, C/C++) for YOLOv3 objection detection and Haar cascade facial recognition.
- Configured robot motors in Arduino IDE (C++) to track detection results seamlessly.
- Installed computer vision dependencies across independent project environments (terminal programming) to avoid software redundancies and conserve memory usage.
- Researched computer vision GitHub projects and concepts: OpenCV, TensorFlow, machine learning, deep learning, artificial intelligence, YOLOv3, COCO dataset, R-CNN variants and SSDs.

Education

Ryerson University
B.Eng. (Electrical Engineering)
2014-2020

1) Awarded IEEE Big Data Competition third place prize: backtested weather data to forecast results within a percentage of accuracy. Integrated microcontrollers and sensors to an online database interpreter (IBM Watson) as a solution to current Smart City challenges.

2) Ryerson SOS (Students Offering Support) Vice President of Business Development:

- Sponsorship acquisition
- Executive meetings
- Team planning
- Recruitment

Dalhousie University
B.Sc. (Neuroscience)
2007-2011

1) Awarded position on Faculty of Science Distinction List for being on the Dean's List every semester.

2) Assumed a leadership role on a board committee as Treasurer for the Undergraduate Neuroscience Society. Oversaw budgets and grant transactions.