

MARK DOBROWLANSKI

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Summary

- Understanding of algorithms & data structures, Java, C, Python, HTML, CSS, and SQL
- 5+ years of design engineering in the rail industry
- Communication skills showcased by training 20+ employees and designing products with international customers

Education

Sheridan College

Advanced Diploma, Software Development & Network Engineering

Expected: Apr 2027

- Coursework: Data Structures & Algorithms (C), Machine Learning (Python), OOP (Java), Database Management (SQL)

McMaster University

Bachelor of Technology, Automotive & Vehicle Engineering Technology

Sep 2015 – Dec 2019

- Clubs: Financial Officer in the Bachelor of Technology Association (Dec 2016 – Dec 2017)
- Coursework: Modelling and Numerical Solutions (C++), Engineering Statistics, Mathematical Signals and Transforms

Technical Skills

- Languages (Proficient): C, Java, Python, SQL, HTML, CSS
(Familiar): C++, C#, JavaScript, MongoDB, VBA
- Technologies: Linux, Bash Scripting, Visual Studios, AWS Cloud
- Frameworks: Angular, Lombok, Maven, NodeJS, Spring boot, Thymeleaf
- Concepts: Object-Oriented Programming, Relational Databases, Cloud Technologies (AWS)

Projects

Electronics Reliability Calculator – Engineering Tool

VBA

- Developed a VBA tool used in 15 projects for calculating the reliability of circuit board assemblies
- Boosted company profits by \$9,500 per year and reduced calculation time by 87.5% on assemblies with 50 components
- Automated component classification using industry standards which reduced calculation errors

Turtle Beach – Game Design

Unity 3D, C#

- Developed core gameplay systems to create a relaxing survival game in Unity
- Implemented enemy path-finding using inheritance, encapsulation, velocity and vector calculations
- Refined level design and character movement based on player feedback, testing, and debugging

Personal Book Store – Java Web Application

Java, Spring boot (Thymeleaf & Lombok), Databases

- Created an online personal webpage for browsing, adding, and removing books using Java & Spring Boot
- Handled user input and displayed data using OOP, H2 databases, and dependency injection

Machine Learning – Sleep Data Analysis

Python, Postman

- Created a logistic regression model to predict correlation between sleep quality & step count using 375 data points
- Trained, tested, and evaluated the model by implementing Python libraries (Matplotlib and Seaborn) and Python APIs

Experience

TDG Transit Design Group

Product Designer (Consultant)

Jan 2024 – Current

Product Designer

Jan 2020 – Jan 2024

- Coded a tool for pricing products in VBA to automate costing and save the team 60 work-hours per year
- Analyzed over 400 production errors and provided areas of improvement to reduce failures
- Spearheaded six company audits through leadership, communication, and effective collaboration
- Implemented company-wide processes for engineering documentation and templates using Excel
- Created 150+ commercial quotes in a 5-year period totalling \$95 million for international customers including Hitachi