

# VAN NGUYEN

www.vannguyen.dev

<https://github.com/vdnnguyen94>

Toronto, ON

t: (519) 902-4060

e: vdnnguyen94@gmail.com

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## OBJECTIVE

A highly motivated individual seeking a Software Engineer Co-op Position to leverage my skills in web development, data analysis, and process optimization.

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## QUALIFICATIONS

- Strong analytical skills, attention to detail, and problem-solving abilities.
- Proficient in web development using different frameworks such as Flask, Django, ASP.NET and MERN stack.
- Proficient in database management, with expertise in establishing connections and implementing stored procedures for Oracle SQL, MySQL, and MongoDB.
- Proven proficiency in Git for version control and demonstrated comfort working in a collaborative Agile environment.
- Track record of implementing, troubleshooting, and thoroughly documenting software solutions, utilizing Git for version control, unit testing, and other best practices.
- Excellent communication and interpersonal skills developed through coursework and projects.

### Programming Languages, Frameworks & Tools

- Experienced: Python, JavaScript, C#, HTML5/CSS, Sqlite3, SQL, MySQL, MongoDB, Linux, Django, Java, JavaFX
- Familiar: C++, C, Scratch, MATLAB, LabVIEW
- Frameworks, Libraries & Tools: MERN Stack, Flask, ASP.NET, CS50 IDE, Visual Studio, VS Code, Anaconda, Spyder, Postman, Visual Paradigm, Visio, Git, GitHub, React, Nodejs, CRUD APIs, RESTful APIs, Agile, Jira, Trello

### Certifications and Trainings

- Advanced CS50's Web Programming with Python and JavaScript | Completed 75%+ problem sets | Harvard University
- CS50 Certificate obtained by scored at least 70% on all problem sets and final projects | Harvard University | David J. Malan
- Udemy | The Complete JavaScript Course | Wordle, Blackjack, solved 100 JavaScript problems | Jonas JSchmedtmann

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## PROJECTS

### Trading Web App (<https://vannguyentrading.dev>)

*Python | Sqlite3 | Flask | API | Git | Linux | AWS | HTML | JavaScript | CSS*

- Successfully attracted and maintained a user base of over 100 registered users actively engaging in trading activities.
- Endorsed by a finance instructor and students for participation in trading competitions.
- Implemented client-side and server-side validations for account registration, stock trading, and user interactions.
- Utilized Google and Yahoo Finance APIs for real-time stock price updates.
- Developed a secure user session system for personalized experiences.
- Designed and implemented a robust database schema for user accounts, stock portfolio and transaction history.

### Survey Web App (<https://surveyappvannguyen.onrender.com>)

*JavaScript | MongoDB | Express | React | Node | CRUD APIs | RESTful APIs | HTML | CSS | Render*

- Implemented end-to-end user management, including registration, login, logout, and profile modification, enhancing security with MongoDB for data storage.
- Designed and implemented a user-friendly survey creation feature, allowing customization of survey questions (Multiple Choice, True/False and Text Field structures) and templates, promoting a dynamic user experience.
- Enabled anonymous users to respond to active surveys, ensuring inclusivity and expanding survey reach, with secure storage of responses in MongoDB for future analysis.
- Developed a secure reporting section with advanced analysis capabilities, allowing registered users to gain insights into survey performance and export statistics for various use cases.

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## WORKING EXPERIENCE

### PRODUCTION ENGINEERING TECHNOLOGIST

Woodstock, ON

PPG INDUSTRY INC. | Toyota Motor Manufacturing Canada

2017 – 2020

*Excel/Macro | LIMS | Oracle SQL | HMI | PLC | SCADA | Visio*

- Developed high-performance computing and data management skills to support QC database.
- Coordinated with SAP and Oracle programmers to enhance inventory management software.
- Conducted engineering trials for new materials and equipment to enhance process efficacy.
- Assisted management with the development of SOPs (Standard Operating Procedures).
- Conducted internal, client, vendor, and regulatory audits.
- Maintained site files of research, projects, and quality control documentation.

### TECHNICAL SERVICE REPRESENTATIVE

Ingersoll, ON

PPG INDUSTRY INC. | GM CAMI

2021 – 2022

- Detected and fixed issues in the manufacturing process, reducing unit cost by 17.5%.
  - Implemented advanced demand forecasting models, reducing excess inventory by 15%.
  - Maintained the E-coat system to ensure compliance to all Quality Management System and Environmental Management System standard
  - Conducted safety training and chemical handling for team members and students
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## EDUCATION

Centennial College

Scarborough, ON

*Candidate for Diploma of Software Engineering Technology*

2023 – Present

University of Western Ontario

London, ON

*Bachelor of Chemical Engineering*

2013 – 2017

### Achievements

- Dean's Honor List awarded for attaining grades in the top 25% of the class | Winter 2017
- \$2,000 President's Entrance Scholarship awarded for achieving an above 90% overall average in senior high school | 2013