Louis Nguyen

226-929-8051 | lnguye25@uoguelph.ca | linkedin.com/in/louisnguyenn | github.com/louisnguyenn | louisnguyen.me

Technical Skills

Languages: C, Python, HTML/CSS, JavaScript, SQL
Technologies/Frameworks: React, Node.js, Tailwind CSS, Bootstrap, PostgreSQL, Vite, Pandas, Matplotlib, Seaborn
Developer/Design Tools: VS Code, Git, GitHub, Linux, Bash, Android Studio, Sublime Text, ChatGPT, Claude, Cursor

Education

University of Guelph **Expected: April 2029**
Bachelor of Engineering, Engineering Systems & Computing *Guelph, Ontario*

- **GPA: 3.84/4.0**, **Cumulative GPA: 88.4%**, Recipient of **$1000** Entrance Scholarship, Dean's List
- **Relevant Coursework:** Intermediate Programming, Web Development, Software Design, Statistics, Linear Algebra

Work Experience

Linamar Corporation **May 2025 – Present**
Senior CNC Machine Operator *Guelph, Ontario*

- Achieved a production output of **121%** by simultaneously operating **4 Muratec MW50 CNC lathes**, each producing **900+ Ford 8F pinions** per shift, while reducing machine downtime by **13%** through efficient cycle management.
- Trained an **inexperienced** operator to independently run **4 CNC lathes**, covering machine operation, insert changes, troubleshooting errors, and quality assurance procedures, resulting in a fully trained team member within **two weeks**.
- Calibrated **5** different **measurement instruments** with tolerances as tight as **±0.02mm** for quality compliance.
- Collaborated with **6 machinists** on the production line to coordinate workflow and verify part quality at each stage.

Linamar Corporation **July 2024 – August 2024**
Final Inspector | August, 2024 – August, 2024 *Guelph, Ontario*

- Inspected **500+ Chrysler sun gears** per shift before shipment by conducting measurements with **micrometers** and **calipers**, ensuring compliance with blueprint specs for dimensional accuracy, surface finish, and critical tolerances.
- Achieved **100+ consecutive days** of zero customer complaints by thoroughly identifying and rejecting defective parts.

CNC Machine Operator | July, 2024 – August, 2024

- Produced **450+ Chrysler sun gears** per shift by simultaneously operating **2 CNC lathes** and a **broach machine**.
- Ensured parts met tight tolerance standards of **±0.05mm** by managing and replacing **4+ tooling** and **inserts**.
- Increased machine cycle times by **20%** by adjusting **feed rates** and **spindle speeds** based on material conditions.

Linamar Corporation **July 2023 – August 2023**
CNC Machine Operator *Guelph, Ontario*

- Operated a **CNC Double Disc Grinder** to produce **2,900+** input, reverse, and reaction **Chrysler pinions** per shift.
- Ensured accuracy by inspecting pinions during production, contributing to a **zero-defect rate** in final quality checks.
- Recorded part measurements in **Operator Data Sheets** using **Microsoft Excel** to track quality assurance processes.

Projects

Personal Website | *JavaScript, React, Tailwind CSS, HTML, EmailJS, Node.js, Vercel* **June 2025**

- Built a responsive portfolio using **React** and **Tailwind CSS**, ensuring a smooth desktop and mobile experience.
- Integrated **EmailJS** to build a fully functional contact form, allowing visitors to ask questions, connect, and network.

FocusIn - GDSC Hacks 2025 | *JavaScript, HTML, CSS, Gemini API, Chrome Storage API* **May 2025**

- Developed a **Chrome extension** using **JavaScript**, **HTML**, and **CSS** to block user-defined websites, leveraging the **Chrome Storage API** to persist settings and improve focus by reducing time spent on distractions.
- Integrated the **Gemini API** to generate context-aware questions from user-uploaded **text files** or **PDF files**.

Gemify | *JavaScript, React, Bootstrap, HTML, CSS, Spotify API, Gemini API, Node.js* **May 2025**

- Developed a responsive web application using **React**, **Bootstrap**, and **Spotify API** that allows users to search and display albums by artist, providing real-time music data including cover art, release dates, and number of tracks.
- Integrated the **Gemini API** to build an interactive **chat bot** that recommends songs or artists based on user input.

Job Vacancies in Canada Data Analysis | *Python, Pandas, Matplotlib, Seaborn* **April 2025**

- Analyzed job vacancy data from **Statistics Canada** by processing large CSV files using **Python** and **Pandas**.
- Developed **data visualizations** using **Matplotlib** and **Seaborn**, highlighting industry trends for actionable insights.