

NASIF MAUTHOOR

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Bilingual Full-Stack and Automation Engineer

PROFESSIONAL SUMMARY

- Specialization in generative AI and machine learning.
- Expertise in documentation and quality control.
- Experience in Cyber-Security and the ITIL Framework.

TECHNOLOGIES

Software Development

Rust, TypeScript, JavaScript, Python, C/C++, Lua, BASH

Web Development

React, Node.js, Express.js, Mongo, Cosmos, Azure SQL, WordPress, CSS, HTML

Cloud & DevOps

Docker, Microsoft Azure, Cloudflare, VMWare, Microsoft Power Apps/Automate

Data Analysis

Tableau, Microsoft Power BI, R, MATLAB, Pandas, NumPy, scikit-learn

Embedded Systems

Xilinx Vivado, Arduino, FPGA, VHDL, Solidworks, AutoCAD, QMK Firmware

WORK EXPERIENCE

Ddrops Company Lead Full-Stack Developer

2022 – 2023

Python, JavaScript,
SQL, Microsoft
Power Apps/Automate

- Spearheaded a team of four to develop QA automation and security tools.
- Designed and maintained database schema, applications, and QMS documentation.
- Managed RESTful API endpoints with Microsoft Power Apps/Automate.

CoCreCo Student Group at University of Guelph Director of Projects

2025 – Current

Python, TensorFlow,
PyTorch, CUDA,
Docker

- Led development of a \$20,000 AI-powered agricultural computing system
- Developing and implementing advanced artificial intelligence models

Bright Learning Center & Cloud Times Global Computer Science Tutor

2021 – Current

Python, JavaScript

- Taught programming and computer science to students from school to University levels.
- Compiled and organized documentation and teaching resources.

ClaimsPro & Reliance Home Comfort Service Representative

2019 – 2022

SQL, HTML, Markdown

- Processed home and car insurance claims while maintaining cyber security protocols
- Managed customer service for home appliance issues and coordinated with technicians
- Collaborated with billing and shipping departments for efficient service delivery

Microsoft Camp21 Event Leader

2015 – 2019

C++, Java, GCODE

- Conducted youth workshops on 3D printing, modeling, and microprocessor programming.
- Collaborated with other leaders to develop and deliver engaging technical content.

LANGUAGES

English - native
French - native

HOBBIES

Working on IOT devices
Creating automation tools
Schematic sketching

INTERESTS

Sales and finance
Hackathons and Game Jams
Contributing to Open Source

EDUCATION AND CERTIFICATIONS

University of Guelph Python, JavaScript, C/C++, Java, MATLAB, R	Bachelor of Engineering, Computer Engineering (CO-OP) <ul style="list-style-type: none">Created dozens of software applications and electronic devices with embedded processors	2019 – 2025
École Secondaire Jeunes Sans Frontières C++, JavaScript, Java, GCODE	French/English High School Diploma <ul style="list-style-type: none">International Baccalaureate certificates in Mathematics, Chemistry, French and English	2014 – 2019
IBM React, JavaScript, CSS, HTML, Python, C	Generative AI for Software Developers <ul style="list-style-type: none">Created a React app using generative AI approaches such as chain or tree of thought	2025
University of California, Davis JavaScript, CSS, HTML	Introduction to Web Development <ul style="list-style-type: none">Learned to create login forms, data entry forms and basic web pages	2022

CURRENT PROJECTS

Personal C++, QMK Firmware, VHDL	Custom Micro-controller Powered 3D printed Keyboard <ul style="list-style-type: none">Custom Colemak DH keyboard with Kailh Choc switches	2025-Current
Personal (T3 Stack) TypeScript, React, Next.js, Tailwind CSS, tRPC, Prisma, Clerk	Multi-Platform Streaming for Businesses <ul style="list-style-type: none">Built multi-platform streaming aggregatorIntegrated Twitch, YouTube, TikTok streaming APIs	2024-Current
Personal (MERN Stack) React, Express.js, MongoDB, Node.js, JavaScript	Survivorship Bias Algorithm Analyzer <ul style="list-style-type: none">Developed algorithm to detect survivorship bias in dataOptimized search and matchup algorithms through oppositional analysis	2024-Current

SIGNIFICANT PROJECTS

University of Guelph C, VHDL, MARS MIPS, BASH	Systems Programming Projects <ul style="list-style-type: none">Designed a virtual CPU executing MARS MIPS assembly with registers and multiplexersDeveloped a scheduler for thread, process and memory managementBuilt custom BASH shell with execution, I/O pipelining, and background processes	2021-2022
Personal C#, Unity, HLSL	Physics Simulations <ul style="list-style-type: none">Created Conway's Game of Life with procedural terrain generation capabilitiesDeveloped 2D fluid physics simulator modeling liquid behavior on various surfaces	2023
University of Guelph C++, Arduino	University of Guelph Teddy-Bear Wheelchair Competition <ul style="list-style-type: none">Engineered robotic wheelchair with precise ping-pong ball shooting mechanismImplemented autonomous navigation and ball trajectory calculations	2019

REFERENCES

References available upon request