






# 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

2022 – 2023  
Python, JavaScript,  
SQL, Microsoft  
Power Apps/Automate

#### Lead Full-Stack Developer

**Ddrops Company**

- 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.

2025 – Current  
Python, TensorFlow,  
PyTorch, CUDA,  
Docker

#### Director of Projects -

**CoCreCo Student Group at University of Guelph**

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

2021 – Current  
Python, JavaScript

#### Computer Science Tutor

**Bright Learning Center & Cloud Times Global**

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

2019 – 2022  
SQL, Cyber Security

#### Service Representative

**ClaimsPro & Reliance Home Comfort**

- 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

2015 – 2019  
C++, Java, GCODE

#### Event Leader

**Microsoft - Camp 21**

- 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

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

## CURRENT PROJECTS

2023–Current C++, QMK Firmware, VHDL	<b>Custom Micro-controller Powered 3D printed Keyboard</b> <ul style="list-style-type: none"><li>Custom Colemak DH keyboard with Kailh Choc switches</li></ul>
2024–Current (T3 Stack) TypeScript, React, Next.js, Tailwind CSS, tRPC, Prisma, Clerk	<b>Multi-Platform Streaming for Businesses</b> <ul style="list-style-type: none"><li>Built multi-platform streaming aggregator</li><li>Integrated Twitch, YouTube, TikTok streaming APIs</li></ul>
2024–Current (MERN Stack) React, Express.js, MongoDB, Next.js, JavaScript	<b>Survivorship Bias Algorithm Analyzer</b> <ul style="list-style-type: none"><li>Developed algorithm to detect survivorship bias in data</li><li>Optimized search and matchup algorithms through oppositional analysis</li></ul>

## PAST PROJECTS

2022 C Programming Language	<b>Bash Inspired Custom Shell</b> <ul style="list-style-type: none"><li>Implemented core BASH features including command execution and I/O pipelining</li><li>Built process management system with forking, signals, and job control</li></ul>
2022 C Programming Language	<b>CPU and Memory Scheduling Simulator</b> <ul style="list-style-type: none"><li>Developed event-based scheduler for thread and process management</li><li>Implemented configurable memory allocation and scheduling algorithms</li></ul>
2021 VHDL, MARS MIPS Assembly	<b>VHDL Virtual CPU</b> <ul style="list-style-type: none"><li>Designed virtual CPU executing assembly code with registers and multiplexers</li><li>Implemented memory and register data storage</li></ul>
2019 C++, Arduino	<b>University of Guelph Teddy Bear Wheelchair Project</b> <ul style="list-style-type: none"><li>Engineered robotic wheelchair for teddy bear transport</li><li>Programmed autonomous course navigation system</li></ul>