

# Benjamin Chausse

Computer engineering student



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## Education

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2022 — 2027: **BACHELOR'S DEGREE IN COMPUTER ENGINEERING** *SHERBROOKE UNIVERSITY*

2021 — 2021: **BACHELOR'S DEGREE IN MECHANICAL ENGINEERING** *SHERBROOKE UNIVERSITY*  
15 CREDITS (CAREER CHANGE)

2018 — 2021: **PURE AND APPLIED SCIENCES** *CÉGEP DE LANAUDIÈRE À L'ASSOMPTION*

## Social Implication

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SEPT. 2017 — FEB. 2018 улиця Весенняя, 18-А NABEREZHNA ST, 4, KYIV, UKRAINE	<b>HUMANITARIAN AID IN UKRAINE AND NEPAL WITH YOUTH WITH A MISSION</b> Provided moral support to families in remote areas, engaged in activities with youth facing difficult circumstances, assisted young children with their homework, and painted schools in poor condition. Banane
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## Professional Experience

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AUG. 2023 — DEC. 2023 2500 BD. DE L'UNIVERSITÉ, SHERBROOKE	<b>VIABILITY STUDY, PROTOTYPING OF A VDI AT SHERBROOKE UNIVERSITY</b> Development of an automated benchmarking tool using <i>Python</i> for comparing the performance of a virtualized desktop infrastructure (VDI) to the current physical infrastructure. Study of different existing solutions (Proxmox, VMware Horizon, Azure) and their viability as a replacement for the current computer science labs. Development of an automated image deployment for student exams and studies by interfacing current databases with a VDI API using a scheduler written with <i>Quarkus</i> in <i>Java</i> .
JUN. 2022 — AUG. 2022 444 RUE KING E, SHERBROOKE	<b>COMPUTER REPAIRS AT MR. ROBOT</b> Problem diagnosis, hardware repair, soldering, software installation, parts ordering and customer service on macBooks, iMacs, Tower PCs, laptops & phones.
FEB. 2020 — AUG. 2021 790 MONTÉE DE ST SULPICE, L'ASSOMPTION	<b>BEER, FISH, AND GROCERY CLERK AT METRO MARQUIS</b> Provided recommendations to customers based on their preferences and needs, managed inventory, prepared meals & stored received products.
JUN. 2019 — FEB. 2020 905 RUE 344, L'ASSOMPTION	<b>PACKER AND MANUFACTURING ASSISTANT AT IPEX INC.</b> Operated a forklift for storage of finished products, packaged products, and assisted with quality control.
MAR. 2018 — MAY 2019 790 MONTÉE DE ST SULPICE, L'ASSOMPTION	<b>FISH CLERK AT METRO MARQUIS</b> Customer service, dish preparation, and stock management and in-depth cleaning of the premises.
SUMMER 2017 780 RUE MARION, JOLIETTE	<b>FACTORY REORGANIZATION ASSISTANT AT TRIOTECH, CREATORS OF FUN</b> Constructed, painted, and stained furniture, crimped & installed Ethernet cables, and assisted with the relocation of departments.

## Special Skills

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**Languages :** French (native), English (fluent bilingual), Spanish (proficient)

**Programming Languages :** C, C++, Python, Shell, Go, R, Java, Javascript, PostgreSQL

**Operating Systems and Others :** Linux, macOS, Windows, L<sup>A</sup>T<sub>E</sub>X, Markdown, Html, Css, Git, Docker

## Projects

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**Guitar Hero Clone** Reimplemented the game *Guitar Hero* in C++ using the QT library, employing a remote controller designed with an ArduinoMega microcontroller. The project is capable of parsing pre-existing *.chart* files and render notes Just-In-Time for optimal performance.

**Task Visualization Tool** Created a plugin programmed in CoffeeScript and Python3, utilizing the Todoist API to visualize tasks on a computer desktop. Tasks are automatically stored offline and synchronized with the Todoist servers when an internet connection is available to ensure data persistence.

<https://tracesof.net/uebersicht-widgets/#Inbox-for-Todoist>

**Markdown to GROFF Conversion Script** Developed a minimal shell script using *sed* to convert Markdown files to the GROFF format, enabling orders of magnitude faster live PDF compilation compared to *pandoc*.

<https://github.com/ChausseBenjamin/groffdown>

## Contribution to Existing Open-Source Projects

- Implemented keybindings to alter task priorities, added a priority-based color highlighting system to the *todoist.nvim* plugin for the *Neovim* text editor & ported the documentation Neovim's native format.  
<https://github.com/romgrk/todoist.nvim>
- Added contents to the Dungeons & Dragons Character Sheet generator *dungeonsheets* (python3).  
<https://github.com/canismarko/dungeon-sheets/pull/151>
- Added my own keyboard layout named *bliss* to the *qmk\_firmware* project (C).  
[https://github.com/qmk/qmk\\_firmware/tree/master/keyboards/hotdox/keymaps/bliss](https://github.com/qmk/qmk_firmware/tree/master/keyboards/hotdox/keymaps/bliss)
- Contributed my own *mainmon* patch to the *dwm* window manager (C) to hide information from public facing monitors.  
<https://dwm.suckless.org/patches/mainmon/>
- Contributed my own *vertile* patch to the *dwl* window manager (C) to enable vertical tiling (it is a reimplementaion of *dwm's bottomstack* patch for wayland).  
<https://github.com/djpohly/dwl/wiki/vertile>

## Passions and Hobbies

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**Music** Piano, Synthesizer, Trombone, Singing, Composition

**Rock Climbing** Indoor bouldering, Outdoor top-rope climbing

**Technology** Computer configuration and assembly, Basic soldering