

Benjamin Chausse

Computer engineering student



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Education

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

2012 — 2017: **DES-SN** — HIGH SCHOOL DIPLOMA COLLÈGE DE L'ASSOMPTION
SPECIALIZATION IN NATURAL SCIENCES AND ENRICHED ENGLISH

Social Implication

SEPT. 2017 — FEB. 2018 УЛИЦА ВЕСЕННЯЯ, 18-А НАБЕРЕZHНА ST, 4, KYIV, UKRAINE	HUMANITARIAN AID IN UKRAINE AND NEPAL WITH YOUTH WITH A MISSION Provided moral support to families in remote areas, engaged in activities with youth facing difficult circumstances, assisted young children with their homework, painted & decorated schools in poor condition.
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Professional Experience

AUG. 2023 — DEC. 2023 2500 BOULEVARD DE L'UNIVERSITÉ, SHERBROOKE	VIABILITY STUDY, PROTOTYPING OF A VDI AT SHERBROOKE UNIVERSITY Development of an automated benchmarking tool using Python 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 Quarkus in Java.
JUN. 2022 — AUG. 2022 444 RUE KING E, SHERBROOKE	COMPUTER REPAIRS AT <i>Mr. Robot</i> 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	BEER, FISH, AND GROCERY CLERK AT <i>Metro Marquis</i> 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	PACKER AND MANUFACTURING ASSISTANT AT <i>IPEX Inc.</i> 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	FISH CLERK AT <i>Metro Marquis</i> Customer service, dish preparation, and stock management and in-depth cleaning of the premises.
SUMMER 2017 780 RUE MARION, JOLIETTE	FACTORY REORGANIZATION ASSISTANT AT <i>Triotech, Creators of Fun</i> Constructed, painted, and stained furniture, crimped & installed Ethernet cables, and assisted with the relocation of departments.

Special Skills

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^AT_EX, Markdown, Html, Css, Git, Docker

Projects

Task Visualization Tool Created a plugin programmed in CoffeeScript and Python3, utilizing the Todoist API to visualize tasks on a computer desktop.

Guitar Hero Clone Reimplemented the game *Guitar Hero* in C++ using the QT library, employing a remote controller designed with an ArduinoMega microcontroller.

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

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
- 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 dwms bottomstack patch for wayland).
<https://github.com/djpohly/dwl/wiki/vertile>

Passions and Hobbies

Music Piano, Synthesizer, Trombone, Singing, Composition

Rock Climbing Indoor bouldering, Outdoor top-rope climbing

Technology Configuration of a gentoo homelab, PC assembly, Basic soldering