

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

Professional Experience

AUG. 2023 — DEC. 2023 2500 BD. DE L'UNIVERSITÉ, SHERBROOKE	VIABILITY STUDY, PROTOTYPING OF A VDI AT <i>SHERBROOKE UNIVERSITY</i> Development of an automated benchmarking tool 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
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, managed stocks, and 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.
SUMMER 2017 780 RUE MARION, JOLIETTE	FACTORY REORGANIZATION ASSISTANT AT <i>TRIOTECH, CREATORS OF FUN</i> Constructed, painted, and stained furniture, 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

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.

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*.

Contribution to an Existing Open-Source Project Added a priority-based color highlighting system to the *todoist.nvim* plugin for the *Neovim* text editor. Added contents to the Dungeons & Dragons Character Sheet generator *dungeonsheets* (python3). Added my own keyboard layout named *bliss* to the *qmk_firmware* project (C). Contributed my own *mainmon* patch to the *dwm* window manager (C) to hide information from public facing monitors. Contributed my own *vertile* patch to the *dwl* window manager (C) to enable vertical tiling (it is a reimplementation of *dwms bottomstack* patch but for wayland).

Social Implication

SEPT. 2017 — FEB. 2018
УЛИЦА ВЕСЕННЯЯ, 18-А
НАВЕРЕЗНА СТ, 4, КИЇВ,
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, and painted schools in poor condition. Banane

Passions and Hobbies

Music Piano, Synthesizer, Trombone, Singing, Composition

Rock Climbing Indoor bouldering, Outdoor top-rope climbing

Technology Computer configuration and assembly, Basic soldering