

ANDREI SOVA
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SKILLS

- Programming Languages: Python, C++, C, Java, JavaScript, R, Assembly
- Tools: Git, Linux / Unix, Emacs, systemd, Nginx, OpenSSL, Docker, SQLite, Jupyter Notebook
- Languages: English, French, Romanian

TECHNICAL PROJECTS

- **May. 2024-Ongoing:** Instant Messaging Server [[Git Link](#)] (Personal Project)
 - Leveraged the OpenSSL and the Linux `epoll(2)` system call for I/O multiplexing to handle thousands of concurrent connections.
 - Created a custom message formatting and data exchange mechanism based on CSV to store user message information in an SQLite database.
- **Jan. 2022-Ongoing:** Linux Server Administration (Personal Project)
 - Applied Docker to securely and robustly deploy a personal website.
 - Hardened a Microsoft Azure platform VPS by disabling SSH password authentication and creating nftable firewall rules to eliminate automated attacks.
 - Levered a reactive JavaScript framework to simplify the front-end code of a personal website.
- **May 2023-Jun. 2023:** Neural Evolution Simulator [[Git Link](#)] (Academic)
 - Gathered statistics using different initial conditions and differential operators to stabilize the simulation, allowing stable population growth.
 - Leveraged the NumPy library to optimize the inference step of the neural networks.

TECHNICAL VOLUNTEER EXPERIENCE

- Open Source Software Community Contributor (Sep. 2019-Ongoing)
 - Projects: OpenBSD, Neovim, KDE, systemd

VOLUNTEER EXPERIENCE

- Marpole Community Food Hub (Sep. 2022-May. 2023)
 - Collaborated with other volunteers to deliver food on time to the people in need.

EDUCATION

- 2nd year Bachelor of Science in Mathematics, University of British Columbia (Expected: Sep. 2023-May. 2027)
 - Specialized Courses: Data Science, Algorithms & Data Structures, Computer Systems