Preston Pan

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Education

2017 - 2021	**Sir Winston Churchill Secondary** – Vancouver, BC
2022 - now	**Pacific School of Innovation and Inquiry** – Victoria, BC

Projects

Note – *All my project's source code are available on* https://git.prestonpan.tech.

- **The Null Webring** – The Null Webring is a webring that I run which has an associated website: https://nullring.xyz.

- **The Null Identity** – An organization that I created that focuses on explaining science and technology from a satirical-pseudoreligious context, with an associated website: https://society.nullring.xyz. I wrote the website with a primitive templating language/static site generator in pure POSIX shell script which generates the website from simpler template and data files.

- **COMAS** – Short for the computer operated math assistance program. It will do extremely complex calculations (operations within quaternionic functional tensors) in the future, but right now only quaternions are fully supported. It comes with a clever way to represent hyperreal numbers as a non-communatative derivative operator division ring.

Skills

- **Systems** – Extensive knowledge of operating systems such as GNU/Linux, OpenBSD, NetBSD, and 9front/plan9, as I have used all of these systems as daily drivers on my personal machine and as servers.

- **Sysadmining** – I sysadmin my own server where I host multiple websites, an email server, git server, and more. As a result, I have knowledge of many standard tools for sysadmining (docker, ssh, common servers and daemons) and have knowledge of many different operating systems.

- **Programming Languages** – c, python, shell, x86 assembly, and HTML/css/Javascript.

- **Development tools** – Knowledge of standard collaborative development tools (command line git, writing UNIX man pages, using build systems like

make/cmake/autotools) as well as writing papers in LaTeX and roff.

- **Mathematics/Physics** – I have knowledge of mathematics up to about a 3rd year university level due to self study, and have gotten distinction in mathematics contests such as the Fermat Waterloo math competition (knowledge of multivariable calculus, linear algebra, discrete mathematics, and ordinary differential equations, among other topics).

- **Music** – I've been playing piano for more than 10 years in total, and have been singing for as long as I can remember. Some of my piano improvisation is on my website.