# Aron Ravikumar

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## EDUCATION

**University of Waterloo** — Waterloo, ON
*Pursuing Bachleor of Mathematics in Combinatorics and Optimization* — *Sept. 2023 – May 2028*

## EXPERIENCE

**Project Team Member, Digital Bootcamp** — May – Aug 2024
*Waterloo Experience (WE) Accelerate Program for Gibbly Inc.* — *Remote, Toronto ON*
- Researched and Optimized Keywords using industry tools to make effective recommendations
- Researched foreign markets using industry standard tools to make recommendations on penetrating new markets
- Completed a competitor analysis using industry SEO tools and gave overall recommendations of future features

**General Executive & System Administrator** — Sep. 2022 – Aug. 2023
*Bayview Secondary School Computer Club & Engineering Club* — *Richmond Hill, ON*
- Maintained a GNU/Linux server used by over 100 club members.
- Led weekly lessons to 40+ students on Linux tools, and self-hosted AI tools (Stable Diffusion)

**Assistant Guru (Teacher)** — Sep. 2022 - Aug. 2023
*Sathya Sai Education  Sathya Sai Centre of Scarborough* — *Toronto, ON*
- Assisted a class of 25, along with leading weekly lesssons
- Organized and ran a high school workshop for 80 elementary school students.

## PROJECTS

**applism.ca** | *HTML/CSS, PHP, Bootstrap, Linux, Oracle Cloud, NGINX* — Jun. 2022 – Present
- Documentation of my extensive personal journey in Operating Systems(Windows, macOS, *BSD)
- Pure HTML/CSS Homepage for high compatibility, with PHP Automation/Localization
- Self-hosted server infrastructure leveraging containerization (LXC) with custom subnet, assisted with enterprise-grade cloud services (Oracle Cloud) to manage networking.

**Kural Term** | *TypeScript, PostgreSQL, Bun, HTML/CSS, xterm.js* — Sept. 2023 – Jan. 2024
- Full Stack Solution to Access a Bash Terminal through a "bastion host"
- Backend & Bastion Host written with Bun for efficient connections
- Frontend utilizes xterm.js for accurate and fast terminal emulation

**Collabi AI Studio** | *React.js, Express.js, PostgreSQL, ChatGPT* — Sep. 2023
- AI Powered collaborative platform for prompt sharing and brainstorming
- Developed Bun JS Backend that interacts with the frontend
- Integrated DevOp pipelines through webhooks, enabling prompt insertion for further development and deployment

**Discord Docker Bot** | *Docker, Javascript (NodeJS), Discord.js* — Sep. 2023
- AI Powered collaborative platform for prompt sharing and brainstorming
- Developed Bun JS Backend that interacts with the frontend
- Integrated DevOp pipelines through webhooks, enabling prompt insertion for further development and deployment

**curses-saver** | *C++, ncurses* — Jun. 2024 – Present
- A bouncing DVD-style terminal screensaver using C++11 standard with the ncurses library
- Leverages C++ OOP to easily use the underlying custom TUI framework
- Developed custom configuration file implementation

**ltoloxa Server** | *Typescript, Bun, TCP Sockets* — Mar. 2024 – Present
- Extensible, low-level, library for building Minecraft classic servers
- Implemented Java Data types and Event Emitters to easily extend the server protocol

## TECHNICAL SKILLS

**Languages**: HTML/CSS, Javascript, Typescript, PHP, Java, Bash, Perl, Python, C, C++
**Technologies/Tools**: GNU/Linux & UNIX (*BSD) Servers, Node.js, React.js, React Native, SQL (PostgreSQL), Docker/Podman, React Native