

# Ayush Kumar

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## PROFILE

9th grade developer with skills in full-stack development, machine learning and command-line tooling. Youngest-ever Apple WWDC scholarship winner at 10 years old. Vim enthusiast.

## EDUCATION

- The Nueva School 2015 - Present
- Inspirit AI Scholars / High School Level 2022 / 8th
- Inspirit AI Pioneers / High School Level 2021 / 7th
- Stanford Pre-Collegiate Studies / Product Design 2024 / 10th

## WORK EXPERIENCE

### FOUNDER & CEO / OCTALWISE LLC

Software company publishing apps on the App Store, including Tracks (iOS app) and Acidity (Safari extension).

🌐 [octalwise.com](https://octalwise.com)

### FULL-STACK INTERN / DRAGONFRUIT AI / REACT, FLUTTER 2024 / 9TH

Created and published the Dragonfruit mobile app to the Play Store.

🌐 [dragonfruit.ai](https://dragonfruit.ai)

### ML, FRONTEND INTERN / DRAGONFRUIT AI / PYTHON, REACT 2023 / 8TH

Implemented frontend and backend components for general object filtering on camera feeds using OwlVIT, an optimized object detection model.

🌐 [dragonfruit.ai](https://dragonfruit.ai)

## PROJECTS

### APPS

#### Tracks (Octalwise) / Swift, Crystal 2023 / 9th

iOS app for monitoring live Caltrain timings through the API. Uses a server written in Crystal for caching API responses.

🌐 [octalwise.com/tracks](https://octalwise.com/tracks) 🔗 [octalwise/tracks](https://github.com/octalwise/tracks)

#### Acidity (Octalwise) / JavaScript, HTML/CSS 2023 / 9th

Safari extension for navigating to archived versions of pages using [archive.ph](https://archive.ph). Published to the App Store and available on macOS, iOS and iPadOS.

🌐 [octalwise.com/acidity](https://octalwise.com/acidity) 🔗 [octalwise/acidity](https://github.com/octalwise/acidity)

### FULL-STACK

## ToDoBox / Python, React

2022 / 7th

Todo app with support for descriptions, sections, dates, and more. Uses a React webapp for the frontend and a Python server using Firebase for data storage and authentication.

🔗 [ayukmr/todobox-webapp](#)

- [Shrew](#) / Clojure, CloJS FRC scouting webapp for Team 4904. 2024 / 9th
- [Lixel](#) / Rust, Svelte Collaborative pixel art tool. 2023 / 8th
- [Piquant](#) / Ruby, React Bookmarking app in the style of del.icio.us. 2023 / 7th

## COMMAND-LINE

### Dotfiles / Various

2022 - Present

Personal dotfiles for various tools including vim, zsh, tmux, and git. The dotfiles are managed using [zest](#) and are completely modular.

🔗 [ayukmr/dotfiles](#)

- [Zest](#) / Ruby Tool for managing modular configuration directories. 2022 / 7th
- [Robin](#) / Python TUI for Zoom team chat using the Zoom API. 2023 / 8th
- [Sherbet](#) / Haskell Reverse polish notation calculator written in Haskell. 2023 / 8th
- [Sodium](#) / Rust Enhanced version of ls written in Rust. 2022 / 7th
- [Quark](#) / Crystal Tool for quickly jumping to certain directories. 2022 / 7th

## OTHER

### Glaze / Ruby, LLVM

2023 / 8th

Compiler for a new language created with the goal of learning how to use LLVM. Ruby bindings of LLVM are used to generate the LLVM IR and convert the program to machine code.

🔗 [ayukmr/glaze](#)

### FTC Code / Java

2023 / 8th

Robot code for the 2023 FTC POWERPLAY robotics competition. Written as the sole programmer for the 10-member *SharkBytes* FTC team.

🔗 [ayukmr/ftc-2023](#)

- [Poplar](#) / Assembly, C Simple x86 operating system with kernel written in C. 2023 / 9th
- [Blocks](#) / Rust WGPU-based rendering of block terrain generation. 2023 / 9th

## SKILLS

### LIBRARIES & TOOLING

- Advanced: Vim, tmux, Git, SQLite, Firebase, React, Sinatra, Flask, WASM
- Knowledge: LLVM, WGPU, Qt, D3, Unity

### LANGUAGES

- Advanced: Rust, Ruby, VimL, Python, JS, HTML/CSS, Swift, Crystal, SQL, ZSH
- Knowledge: C, C++, C#, Clojure, Java, Go, Lua, NASM, AppleScript

## AWARDS

- |                                       |            |
|---------------------------------------|------------|
| • WWDC Student Scholarship / Apple    | 2019 / 4th |
| • Silver Level / USACO                | 2023 / 9th |
| • Third Place / Golden Gate STEM Fair | 2024 / 9th |
| • Second Place / San Mateo STEM Fair  | 2020 / 5th |
| • Best Presentation / Inspirit AI     | 2022 / 7th |