

# Ashwin Rajesh

SOFTWARE ENGINEER · STUDENT AT UTS

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## Summary

Enthusiastic and motivated undergraduate software engineering student seeking internship opportunity. Proficient in Object-oriented programming languages. Contributed to open source projects such as polybar, a widely popular linux status bar and recipient of the award for 'most outstanding student in Software Design & Development' in highschool. Offers great analytical & problem-solving skills, Strong team-working abilities and willingness to learn new technologies and gain industry experience

## Work Experience

### Gecko

[Ultimo NSW](#)

FULL-STACK SOFTWARE ENGINEER

Nov. 2022 - July 2023

- Designed and implemented fundamental website features such as inventory tracking, product addons & review systems.
- Worked on decreasing load times of the main storefront pages using server side rendering and generating static paths, retaining more customers on the site.
- Worked on Search Engine Optimisation (SEO), increasing the visibility & outreach of Gecko

## Technical Skills

### Programming Languages

RUST, C, TYPESCRIPT, BASH, JAVA, PYTHON, C++

### Tools & Technologies

VIM, GIT, SSH, NGINX, DOCKER, GRAPHQL REACT, EXPRESS, MONGODB, POSTGRES, WEBSOCKETS, NIX

### Operating Systems

LINUX (UBUNTU, ARCH LINUX, DEBIAN), WINDOWS

## Projects & Contributions

### Zyenyobot

[zyenyobot.com](#)

TYPING TEST DISCORD BOT

Aug. 2022

- Created a bot that allows users to test their typing speed within discord, with functionality such as leaderboards, charts and averages.
- Used MongoDB aggregation functions to perform statistical analysis on collected typing data.
- Helped create a type performance rating algorithm, by associating the user's WPM, accuracy & prompt difficulty
- Currently active - used by multiple users in a large public server.
- Utilized Docker to deploy a full stack website along with the bot on a VPS.

### Polybar Contributions

[github.com/polybar](#)

POPULAR LINUX STATUS BAR

Aug. 2022

- Fixed a bug that caused the entire status bar to crash when a user provided a certain configuration.
- Contributed a spacing customisation feature to Polybar (popular status bar for linux), to enable the user to customise token widths in the status bar.
- Developed an option to prevent the program from setting display manager settings such as "struts", which was reported to cause serious bugs.
- The pull requests were approved and are currently available to use in the latest version of Polybar.

### Gromit-MPX Contributions

[github.com/bk138/gromit-mpx](#)

ON-SCREEN ANNOTATION TOOL

Sep. 2023

- Added a feature that enables the software to generate strokes from command line input, with customisable characteristics such as colour, thickness and direction/length.
- Added functionality to save the on-screen notes to a PNG file.
- The draw-line command was approved and deployed in the 1.5.0 release.

### Virtual Rubik's Cube Model & Timer

[cube-timer-theta.vercel.app](#)

SPEEDSOLVING TIMER

Dec. 2023

- Created a speedsolving timer using NextJS that responsively adjusts to desktop or mobile use.
- Developed a 2D virtual Rubik's cube model, As a requirement of the timer's random scramble tool. This model can be used to double check the accuracy of a user's scramble

## Education

## **UTS(University of Technology Sydney)**

B.E IN SOFTWARE DEVELOPMENT WITH DIPLOMA IN PROFESSIONAL PRACTICE

- Received recognition as iSupporter Volunteer, by mentoring offshore students about Australian learning culture.

*Ultimo NSW*

*Feb. 2021 - Dec. 2025 (expected)*

## **Parramatta High School**

NSW HIGHER SCHOOL CERTIFICATE

- Certificate of achievement for “Most outstanding student in year 11 Software Design & Development”.
- Principal’s award for highest band in “Mathematics Advanced” year 12.
- Certificate of achievements for first position in Software Design & Engineering Studies

*Parramatta NSW*

*Jan. 2019 - Nov. 2020*