

Aditya Kumar

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Education

Kurukshetra University

Bachelor of Technology in Computer Science

Kurukshetra, Haryana | 2024-28

Experience

Google Summer of Code 2025 Contributor

[Read More](#) | June – Sept 2025

Kornia

- Designed and integrated three primary computer vision detection and feature modules: an AprilTag Detector, a FAST Corner Detector, and an ORB Detector.
- Improved video pipeline by **15%** by implementing zero-copy image handling from gstreamer.

Personal Projects

Shadow Runner | *Rust, Bevy, Web Assembly*

[GitHub Repo](#) | [Play on itch.io](#)

- Developed a 2D platformer game for the Code for *Cause Game Jam*.
- Achieved a ranking of **141 out of 1000** participants.

Bevy Discord | *Rust, Bevy*

[GitHub Repo](#)

- Created a lightweight library that integrates Discord functionality into Bevy applications.
- Facilitates the use of Discord Rich Presence and app integrations within Bevy projects.

Pastey | *Rust*

[GitHub Repo](#)

- Developed a macro crate for advanced token pasting.
- Features include generating raw identifiers and extended case conversion capabilities.

Release Butler | *API, GitHub App, Shuttle, AWS, Rust, Automation*

[GitHub Repo](#)

- Built a GitHub App to streamline the release workflow by automatically generating pull requests with updated versions and changelogs.

Personal Website | *Astro, TailwindCss, GitHub Pages, GitHub API, Automation, Rust, Python.*

[GitHub Repo](#) | [Visit Website](#)

- Designed and developed a static website that automatically updates project information using GitHub Actions.

Open-Source Contributions

Kornia-rs | *Rust, Computer Vision*

[32+ PRs Merged](#)

- Worked as a **Google Summer of Code 2025 Contributor** implementing three core computer vision detection: an AprilTag Detector, FAST Corner Detector, and an ORB Detector.
- Add support for various image processing for formats like PNG, JPEG, etc.

Copper-rs | *Rust, Robotics*

[7 PRs Merged](#)

- Contributed 7 Pull Requests, including new features, performance improvements, and bug fixes.
- Enhanced Continuous Integration (CI) performance by **10x**. [PR #215](#)

Wikimedia | *PHP, JavaScript*

[2 PRs Merged on GitHub](#) | [2 Merge Requests on Gerrit](#)

- Submitted fixes and enhancements across multiple Wikimedia repositories.

Azalea-rs | *Rust, OAuth, API*

[6 PRs Merged](#)

- Delivered 6 Pull Requests, incorporating bug fixes, new features, and an OAuth customization support feature ([PR #159](#)) with improved documentation.

Skills

Languages: Rust, C/C++, Python, Javascript/Typescript, Dart

Frameworks: Bevy, Tokio, Next.js, React.js, Flutter, Django, Flask

Database: Firebase, PostgreSQL, MySQL, AWS DynamoDB

Tools & Technologies: Git, GitHub Actions, Docker, Web Assembly, AWS, Oracle Cloud

Certifications

○ **Compiler Design**

May 2025

NPTEL | [View Online](#)