

# Debakar Roy

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[github](#) | [linkedin](#) | [blog](#)

## EXPERIENCE

### Intel Corporation

August 2022 - Present

Karnataka, IN

#### Senior Software Engineer

- Architected and maintained test automation frameworks, resulting in \$1M savings by prioritizing critical bugs and enabling off-hours runs, boosting efficiency.
- Engineered scalable microservices solutions with RESTful APIs, optimizing execution across 1000+ systems, significantly improving scalability and utilization.
- Standardized CI/CD pipelines across the organization using Jenkins shared libraries and agent templates, reducing new project setup time to 5 minutes and fostering rapid development cycles.
- Led AI productivity initiatives, applying AI in code generation, documentation, and more, boosting productivity by 30%.
- Delivered Python training to 1200+ employees, saving \$1.2M and promoting continuous learning.
- Tech lead for 4+ annual projects, guiding 20+ engineers towards technical excellence and goal alignment.
- Continuously review and maintain the main codebase, enforcing coding standards and best practices.

### Intel Corporation

August 2019 - August 2022

Karnataka, IN

#### Software Engineer

- Pioneered test content automation across 6+ domains, including AI and Power Management, for Windows Functional Validation, automating over 1200 test cases, which constituted 15% of the manual test plan.
- Was instrumental in overseeing a distributed codebase with contributions from 50+ developers, ensuring high code quality and consistency.
- Established an efficient CI/CD pipeline with industry-standard DevOps tools, reducing deployment times by 20%, increasing deployment frequency by 3x, and enhancing development efficiency across 4+ projects.
- Led a 30-member development team's technical ramp-up, creating 40+ documentation guides, which cut project onboarding time by 50% and boosted knowledge sharing efficiency by 40%.

### Intel Corporation

July 2018 - August 2019

Karnataka, IN

#### Undergrade Intern Technical

- Developed a Python-based automation framework for RF performance and compliance automation.
- Leveraged Git, Intel XMM modems, Python, PyCharm IDE, CMW, and Anritsu Wideband Radio Communication Tester.

## EDUCATION

### Bachelor of Technology, Computer Science

August 2015 - July 2019

West Bengal, IN

Siliguri Institute of Technology, 9.12 DGPA

## SKILLS

**Programming Languages** *Experienced:* Python *Familiar:* Rust | Bash | C++ | JavaScript

**Software Development** Programming Paradigms | Design Patterns | Agile methodologies | Git | REST | CLI | CI/CD

**Frameworks & Libraries** FastAPI | Flask | Vue | Pandas | Selenium | Playwright | Poetry | HUGO

**DevOps** Jenkins | Kubernetes | Docker | CloudFoundry | Rancher | Terraform

**Database Technologies** *Experienced:* MongoDB | Redis

**Languages** *Native:* Hindi *Fluent:* English *Beginner:* Japanese | Korean | Mandarin

## PROJECTS

### kodekloud-downloader

April 2023

Download Manager for KodeKloud

[Source](#)

- Developed a download manager for KodeKloud with features for downloading video lessons and quizzes.

### kisskh-dl

July 2022

CDrama/KDrama Downloader

[Source](#)

- Created a command-line tool for downloading and decrypting shows from kisskh.co.

### Flappy NEAT

February 2018

[Source](#)

NeuroEvolution Game

- Implemented a Flappy Bird game using the NeuroEvolution of Augmenting Topologies algorithm.

### Myanimelist Data Set Creator

February 2018

[Source](#)

Anime Data Parser

- Created a tool for parsing and storing myanimelist.net data.

## OPEN SOURCE CONTRIBUTIONS

- Contributed to various open source projects, enhancing functionality and fixing bugs. My contributions can be viewed on my GitHub profile: <https://github.com/debakarr>.