

# Nishant Mittal

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## EDUCATION

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**Indian Institute of Technology (BHU), Varanasi**  
*Integrated Dual Degree (B.Tech + M.Tech) in Computer Science*

Aug. 2018 – May 2023  
CPI – 8.59

## EXPERIENCE

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### Google

May 2022 – July 2022

*Software Engineering Intern*

- Evaluated multiple image formats in terms of compression ratio, latency, quality of the compressed image, etc. and selected the best one for the project's use case.
- Tested multiple pdf handling libraries and integrated "pdfium" with the android app via Java Native Interface.
- Sandboxed the processes by pdfium library to tackle potential security issues related to malicious PDFs.
- Exposure: *Java, C++, Android, Java Native Interface.*

### Productiv

Nov. 2021 – April 2022

*Software Engineering Intern*

- Built a fault-tolerant connector for Showpad which is capable of ingesting the user engagement data in batches.
- Fixed bugs in multiple connectors like Azure, Pagerduty and Salesloft and researched on the feasibility of 15+ connectors with the Productiv's platform.
- Made various improvements to the scripts that handle automated creation of jira tickets to ensure a smoother developer workflow.
- Exposure: *Node.Js, Amazon Web Services.*

### Gojek

June 2021 – July 2021

*Product Engineering Intern*

- Worked on writing backdoor APIs, internal scripts, generating Swagger documentation for the Customer Owner micro-service powered by Ruby on Rails.
- Followed test-driven development and wrote unit tests for all the code written by me.
- Exposure: *Ruby, Rails, Rspec, Sidekiq, Redis, Kafka, Swagger, Open API, Microservice architecture.*

### Google Summer of Code | Joplin

June 2021 – Aug. 2021

*Student Developer*

- Re-engineered the templates feature in the Joplin desktop application as a separate plugin to make the feature more robust and maintainable.
- Ensured a smooth one-click transition from the new plugin from the legacy feature.
- Wrote unit tests and setup CI workflows using GitHub actions.
- Wrote scripts to automate the creation of GitHub release and announce the release in Joplin forum.
- It is one of the most downloaded plugins in Joplin and has 75+ stars on its [GitHub Repo](#).
- Exposure: *React, Electron.Js, TypeScript, GitHub Actions.*

### Quickwork

Nov. 2020 – Dec. 2020

*Software Engineering Intern*

- Added 5+ applications including Firebase, Cloudinary and Proofhub to Quickwork's portfolio and built connectors for them by consuming their REST APIs.
- Exposure: *REST APIs, Node.Js.*

### Google Summer of Code | Oppia

June 2020 – Aug. 2020

*Student Developer*

- Improved the webpack configurations that resulted in 50% faster builds and very low (around 20s) consecutive build times.
- Added types to all the TypeScript code. Manually wrote types for third-party dependencies that didn't have types already.
- Enforced multiple new lint checks and wrote custom lint checks to ensure that there are proper comments whenever typescript errors are ignored.
- Refactored code to make it more modular, migrated multiple components from AngularJs to Angular. Wrote units tests for 100% of the code written by me.
- Wrote documentation explaining webpack configurations and typescript conventions to be used as a reference by other contributors.
- Exposure: *Python, TypeScript, Webpack, Angular, CI/CD.*

## PROJECTS

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### GSoC Organizations

[gsocorganizations.dev](https://gsocorganizations.dev)

- A site for viewing and analyzing the info of the organizations participating in Google Summer of Code.
- 100+ stars on [GitHub](https://github.com) and 200k+ page views.
- Tech Stack: *GatsbyJs*, *Web Scraping*, *GraphQL*.

## ACHIEVEMENTS

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- Rated Candidate Master (1916) on [Codeforces](https://codeforces.com) and 5-Star (2010) on [Codechef](https://codechef.com).
- Secured 1st position in Microsoft Codefuno++ 2k19 and represented the institute in the national finals.
- Secured 3rd position in Microsoft Codefuno++ 2k18 in my freshman year.
- Bagged an AIR of 939 in JEE Advanced 2018, and 794 in JEE Main 2018 amongst 0.2 million, and 1 million candidates respectively.
- Awarded Certificate of Merit by Gymkhana, IIT (BHU) Varanasi for my contributions to the institute being part of organisational activities.