# Mohit Raj

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## Summary

Backend Engineer with 3+ years of experience architecting high-impact backend solutions, from deep system optimization to building complex, data-driven platforms. Key achievements include re-architecting a financial pipeline in Python for a **50x performance gain** and deploying a **multi-agent AI orchestration system**.

## Experience

**Software Engineer - Backend** | *Unifize*                                             *Oct 2025 – Present*

**Software Engineer** | *PwC AC Bangalore*                                              *Sep 2022 – Sep 2025*

- Re-architected a legacy financial pipeline to Python, delivering a **50x reduction in compute time** that cut report generation from hours to minutes, dramatically lowering operational costs.
- Designed the **PostgreSQL** schema and **Python (FastAPI)** backend for an **executive reporting platform** that unified project data from sources like Jira, GitHub & DevOps **enabling data-driven strategic planning.**
- **Developed and deployed** the Microsoft Teams application for a multi-agent AI system, **optimized the core agent discovery & ranking logic** to significantly improve response times and reliability.
- Authored comprehensive **engineering documentation** that became the team standard, establishing a reusable onboarding process that **significantly accelerated new hire ramp-up time**.
- Built a **code analysis platform** for GitHub & Azure DevOps to automate security and performance reviews in the **CI/CD pipeline**, posting feedback on pull requests to enforce quality standards.

## Skills

**Languages:** Python | Go | Typescript | JavaScript | SQL
**Software:** FastAPI | Docker | Git | PostgreSQL | Node.js
**Platforms:** Azure | AWS | GitHub

## Projects

**Omnivore EPUB** | *github.com/agrmohit/omnivore-epub*
*Application to create e-book from articles saved in user's Omnivore library (a read-it-later app like Pocket)*

- Utilised **Deno** and **Typescript** to build a highly configurable application that can send e-book to Kindle
- Leveraged the API to efficiently retrieve data, ensuring a **fast and responsive user experience**
- Addressed a longstanding feature request for the Omnivore platform, gaining **100+ GitHub stars**

**UserScripts** | *github.com/agrmohit/userscripts*
*Collection of scripts written in JavaScript to enhance web page functionality like adding keyboard shortcuts*

- Implemented intelligent content detection to automatically remove or re-purpose distracting elements
- Facilitated seamless toggling between raw and formatted content on like **GitHub, Imgur and jsDelivr**

**Microsoft Rewards Bot**
*Bot written in Typescript using Playwright to automate searches (for educational purpose)*

- Developed logic to save authentication parameters on first login, enabling automatic session resumption
- Added automated element parsing to intelligently handle changes, errors and implemented rate-limiting

## Education

*Silicon Institute of Technology, Bhubaneswar* | *GPA: 8.28 of 10*                        *May 2022*
**B.Tech.** | *Computer Science and Engineering (CSE)*                                *Bhubaneswar, Odisha*