

# Dileep Kumar Mycharla

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## Summary

Software Engineering graduate with experience building scalable full-stack applications using Django, React, and PostgreSQL. Developed production-style systems including a multi-tenant LMS and a consulting platform, improving API performance by 25% and supporting 500+ users. Strong in backend architecture, REST APIs, and database optimization, with experience in deploying applications on AWS. Seeking to contribute to a high-impact engineering team.

## Education

**Wilfrid Laurier University**

*Master of Applied Computing*

**JNTU-GV**

*B.Tech in Computer Science & Engineering*

Aug 2024 – Dec 2025

Ontario, Canada

Aug 2020 – Apr 2024

India

## Experience

**Primary People Group (Capstone Project)**

*Software Engineer – Academic Capstone*

Sep 2025 – Dec 2025

Waterloo, Ontario

- Built a full-stack consulting platform using Django and React, supporting 100+ client interactions via secure dashboards and workflows.
- Developed REST APIs with optimized PostgreSQL queries, reducing response time by 25%.
- Implemented JWT authentication and role-based access control to ensure secure and reliable data handling.

**GA Digital Solutions**

*Software Engineer Intern*

Jun 2023 – Jan 2024

Hyderabad, India

- Engineered a multi-tenant LMS backend supporting Admin, Instructor, and Student workflows across a platform serving 500+ users.
- Built REST APIs and deployed services on AWS EC2 using Docker, improving modularity and enabling scalable system design.
- Implemented automated quiz evaluation and instructor-reviewed grading, improving accuracy and consistency of student progress tracking.

## Projects

**Payroll Management System** | *Django, PostgreSQL, JavaScript*

[GitHub](#)

- Developed a payroll system using Django with role-based access control and REST APIs for secure employee data management.
- Optimized PostgreSQL queries and schema design to efficiently process 1000+ payroll records with improved performance and reliability.

**ScanExpense Android App** | *Java, Android SDK, CameraX, SQLite, ML Kit*

[GitHub](#)

- Built an expense tracking app using on-device OCR (ML Kit) to extract and categorize receipt data in real time.
- Processed 500+ receipts with structured storage and analytics, enabling users to track and visualize spending patterns.

**MPI-Based Distributed Log Analyzer** | *C, MPI, Linux*

[GitHub](#)

- Built a parallel log analysis system using MPI to distribute processing across multiple processes, handling 2M+ log entries efficiently.
- Performed benchmarking across 1–8 processes to measure execution time, speedup, and scalability of distributed workloads.

## Technical Skills

**Languages:** Python, Java, JavaScript, SQL, C++

**Backend Development:** Django, Django REST Framework, JWT Authentication

**Frontend:** React, Next.js, HTML5, CSS3

**Database:** PostgreSQL, SQLite

**Cloud & DevOps:** AWS (EC2), Docker, Git, GitHub, CI/CD, Linux

**Testing:** Pytest, JUnit

**Practices:** Data Structures & Algorithms, OOP, Design Patterns, Agile