

# Mohit Lal

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Portfolio: [mohit-lal.github.io/](https://mohit-lal.github.io/)

## SUMMARY

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A skilled software engineer with over five years of experience collaborating on large-scale projects.

## PROFESSIONAL EXPERIENCE

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**Freelance Software Developer** (Python + PostgreSQL) January 2023 - Present  
Remote

- Enhanced custom RESTful APIs and GraphQL endpoints to power web and mobile applications.
- Seamlessly incorporated third-party services and APIs, such as payment gateways, authentication systems, into client applications increasing revenue.

**Software Engineer II** (Python + React) October 2020 - August 2021  
[Cotiviti](#) (Hattisar, Nepal - Headquartered in Massachusetts, United States)

- Spearheaded the implementation of a robust Python Django backend system, enhancing system performance and facilitating seamless data communication with the React.js frontend.
- Streamlined data flow by leveraging RESTful APIs, resulting in healthcare data visualizations and improved user engagement.
- Efficiently oversaw data using Django's ORM and attained a 25% reduction in bugs through test-driven development (TDD) and the use of Pytest, unittest, Selenium, and Mocha.
- Streamlined database generation processes in the Bridge application using PostgreSQL, adding critical features for ETL operations and reducing generation time by 30%.
- Mentored a team of five junior engineers and maintained comprehensive technical documentation.

**Junior Software Engineer** (Progress 4GL + Javascript) April 2019 - September 2020  
[Javra Software](#) (Bhaisepati, Nepal, Headquartered at Culemborg, Netherlands)

- Engineered the development of a Quoting system using Python, Progress OpenEdge, C#, and React, enabling quotes generation based on customer item requests.
- Implemented a CI/CD pipeline using Gitlab Runner, Jenkins, and Ant, accelerating product delivery by 50%.
- Played a key role in biweekly product releases for Quoting Tool (SaaS product) and XEPST (Javra Internal tool).
- Collaborated on the development of an ERP framework in Progress 4GL (X/E Files), implementing features such as pagination, charts, and a rich text editor to improve functionality and user experience.
- Developed employee reports and holiday modules within the Employee Management System (EMS) used by 500 employees.

**Technical Analyst** July 2017 - March 2019

KB Nepal Pvt. Ltd (Kathmandu, Nepal)

- Collaborated with interdisciplinary teams to gather and analyze user requirements, bridging the gap between business goals and technical solutions.
- Managed social media content, resulting in a 30% increase in online engagement due to the creation of engaging content and visually appealing graphics.

- Conducted security assessments, identifying vulnerabilities in network ports, and providing security recommendations.

**Software Engineering Intern** (Django + SQLite)  
[Sarobar Technology Pvt. Ltd.](#), (Lalitpur, Nepal)

January 2017 - June 2017

- Contributed to end-to-end development, including front-end and back-end development, database design, and API integration, using Python, Django, HTML, CSS, JavaScript.
- Conducted comprehensive research on company security solutions, including firewall, MFA, access control, secure endpoints, and backup methods.
- Actively engaged in code reviews and debugging sessions, identifying and resolving issues to improve code quality and application performance.

## EDUCATION

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Post Graduate in **Mobile Solutions Development**  
Conestoga College, Waterloo, Canada

May 2021- August 2022

Bachelor of Engineering in **Computer Engineering**  
Purbanchal University, Biratnagar, Nepal

November 2011 - January 2017

## AWARDS

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**Cotiviti Hackathon 2021:** Awarded the "Cotiviti Hackathon Award" (Best Project Award) in July 2021 for leading a successful project transitioning a bottlenecking R model to Python utilizing Simple Linear Regression (SLR), significantly enhancing operational efficiency by 20%.

**Employee of the Month:** Recognized as "Employee of the Month" at Javra Software in January 2020 for implementing CI/CD using Gitlab Runner, resulting in a 40% reduction in deployment.

## CERTIFICATIONS

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- Advanced Python: [LinkedIn Learning](#)
- Continuous Delivery Devops: [University of Virginia \(Coursera\)](#)
- Python Data Structures: [University of Michigan \(Coursera\)](#)

## PROJECT WORK

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### **NI Engine Dashboard, Cotiviti (2019 - 2021)**

- Developed chart modules and data modules with Python Django, PostgreSQL and React.js, Jinja2 for templating and WTFForms for form validation.
- Made custom reusable components in React and modules using libraries such as Pandas, NumPy.

### **Quoting Tool, Javra Software (2018)**

- Reduced server response time by 40% by leveraging ReactJS and Progress OpenEdge to create a lightweight and fast-performing application.
- Decreased application load time by 50% by optimizing database queries and schema design to handle complex data models and multiple vendor integrations.

## SKILLS

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- Languages: Python, JavaScript (ES6), Progress OpenEdge ABL, Java, TypeScript
- Frameworks: Django, Flask, FastAPI, REST
- Web Development: React, HTML5, CSS3, Vue.js
- Databases: PostgreSQL, MySQL, MSSQL
- Other: Linux, Docker, Selenium, Jenkins, Gitlab Runner, Kubernetes, Git, SVN, AWS