# Deepank Kartikey

GitHub | LinkedIn | deepankkartikey@gmail.com | +1-343-777-4779 | Ottawa, Canada (Willing to Relocate)

## SKILLS

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|---|---|
| **Programming**: | Java, Python, JavaScript, TDD, Object Oriented, Algorithms |
| **Back end**: | MVC, Spring Framework, Microservices, Node.js, JSON, RESTful API |
| **Front end**: | HTML, CSS, Web, Angular, React, UI mockups, Figma |
| **Databases:** | Relational Database, Oracle, PostgreSQL, NoSQL, MongoDB |
| **DevOps**: | Docker, Containerization, S3, Lambda, Linux, Git, Jira, Confluence |
| **Others:** | JUnit, Debugging, Scrum, Agile, SDLC, Collaboration, Code Review |

## EXPERIENCE

**University of Ottawa: Software Developer**                                                        May 2022 – Dec 2023
- Pioneered development of a Python script, **automating firewall rules verification** with data from MS SharePoint Excel thereby reducing manual verification time by 80% and achieving 98% accuracy.
- Implemented **Student Information API**, employing rigorous **test driven development** with **coverage of over 95%** and reducing data retrieval time by 75%
- Developed **scalable API for University recruiting** using **Spring Boot**, driving a 40% improvement in response time and enabling seamless integration across multiple departments.
- Achieved superior software quality with **unit testing** using **Jest** leading to 80% reduction in post-release defects.
- Reduced deployment time by 75% through robust **Jenkins CI/CD** pipeline for 3 major projects within scoped time.

**ACI Worldwide:  Java Developer**                                                                    Jan 2018 – Sep 2021
- Implemented **Struts to Spring conversion** for enterprise fintech solution leading to better dependency management, improved performance and high availability of 99.995%.
- Designed & developed **scalable microservice for configuration migration**, thereby resulting in strategic portfolio revenue growth by $1 million monthly.
- Implemented and optimized a payment gateway notification system using **Apache Kafka** and Java, resulting in a 30% increase in message throughput, processing over 5,000 messages per second, and **reducing notification delivery latency** by 40%, enhancing the overall payment processing efficiency and user experience.
- Designed and **implemented Project Management Tools** for PMs and stakeholders for quick onboarding of new clients in a fast-paced environment thereby saving 50% of time and resources.
- Debugged & resolved UAT**/Production issues** in **payment gateway application** driving monthly revenue of $5 million.

## PROJECTS

**Umple, Open Source Project** (Github)
- **Migrated Umpleonline to Codemirror6** resulting in Improved Performance, Modular Modern Architecture, richer features (like Autocompletion, Linting, Collaborative Editing), and future proofing the application.
- Researched and **implemented Collaborative Editing** using WebSockets leveraging **Socket IO**, **Express**, **Typescript** enabling over 1.5 million users to edit models in Umpleonline to foster teamwork and productivity.

**Pariksha,** (Github)
- Engineered a **dynamic full-stack web application**, seamlessly integrating Spring Boot, Angular, and MySQL technologies, resulting in a 20% improvement in overall functionality and user experience.
- Implemented **robust OAuth2 authentication**, enhancing user security and achieving a 30% reduction in data management incidents, while ensuring a responsive and engaging user interface.
- Executed the successful **deployment of** the **application on aws**, optimizing performance and scalability, resulting in a 25% increase in application responsiveness and a 40% improvement in overall scalability.

## EDUCATION

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|---|---|---|---|
| Master of Computer Science | University of Ottawa, Canada | 3.9/4.0 | 2021 - 2023 |
| BTech in Information Technology | VIT University, Vellore | 9.27/10 | 2014 - 2018 |

## VOLUNTEERING EXPERIENCE
- Mentored 30 new hires with initial technical & soft-skills training through online and offline modes.