Raman Joshi

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Profile

- Master of Applied Computing student at University of Windsor with hands-on experience in full-stack development, data engineering, and real-time systems through internships at KPMG and Plutonic Services. Proficient in Python, Java, React, and modern frameworks with proven expertise in building ETL pipelines, optimizing application performance, and implementing CI/CD workflows. Strong foundation in algorithms, system design, and Agile methodologies, complemented by AWS certification.

Technical Skills

- **Programming Languages:** Python, Java, JavaScript (ES6+), TypeScript, C/C++, SQL, HTML/CSS
- **Web & Backend:** React.js, Node.js, Django, RESTful APIs, Kafka, Flutter
- **Data & Storage:** PostgreSQL, MongoDB, SQL, ETL Pipelines, Data Warehousing, Tableau
- **DevOps & Cloud:** Docker, AWS Cloud, GitHub, CI/CD Pipelines, Babel, Web-Pack
- **Development Tools:** VS Code, IntelliJ, Android Studio, Git/GitHub, Linux/UNIX, shell Scripting, Jira
- **Methodologies & Concepts:** Agile Development (Scrum), Data Structures & Algorithms, System Design, Unit & Integration Testing, API Development, Mobile App Development

Education

Master of Applied Computing   May 2025 - Present
University of Windsor • Windsor, ON
- Final Semester of program requires a 4 - or 8 - month internship starting in May 2026

Bachelor of Technology in Computer Science & Engineering   Jun 2020 - Apr 2024
Punjab Technical University • India
- GPA: 3.8/4

Internship Experience

Digital Government Advisory Intern   Apr 2024 - Jun 2024
KPMG • Noida, U.P., India
- Built and optimized React + Python applications, accelerating feature delivery and improving development speed
- Refactored core modules for maintainability, decreasing technical debt and code duplication
- Applied profiling and debugging tools, cutting load times and revising stability across production apps
- Created automated unit and integration tests, simplifying QA cycles and restructuring release reliability
- Collaborated in an Agile team, achieving high sprint completion rate through cross-functional communication
- Streamlined GitHub workflows and CI/CD pipelines, reducing integration issues
- Shaped to client-facing deployments, lowering incident tickets and improving user satisfaction

Full-Stack Developer Intern   Jan 2024 - Mar 2024
Plutonic Services Pvt. Ltd. • Noida, U.P., India
- Designed responsive UI features with React, Flutter, and JavaScript, restructuring usability and customer engagement
- Built real-time reporting systems for usage monitoring, minimizing down downtime incidents
- Implemented refactoring and optimization techniques, reducing load times across modules
- Integrated REST APIs with front-end systems, lowering bug reports and improving system stability
- Conducted unit and load testing, achieving high success rate on production deployments
- Proposed new design patterns and coding practices, decreasing onboarding time for new engineers

- Partnered with QA and UX teams, improving delivery accuracy and diminishing rework

Research Intern   Jul 2022 - Dec 2022
National Institute of Technology Karnataka (NITK) • India
- Researched image processing and encryption algorithms, revising recognition accuracy and system performance using MATLAB
- Developed secure transmission models, simplifying vulnerabilities and enhancing data protection
- Optimized data transformation processes, cutting processing time during experimental runs
- Collaborated on academic publications in AI-driven recognition and secure communication

Projects

Retail Demand Forecasting & ETL Automation Pipeline   Sep 2025 - Nov 2025
University of Windsor • Windsor, Ontario
- Built an end-to-end retail demand forecasting system with a real-time ETL pipeline using Python, PostgreSQL, Kafka, and Tableau
- Designed a data warehouse (Fact & Dimension tables) and automated ETL pipelines to clean, validate, and load historical and streaming sales data
- Simulated live retail transaction streams (sales, inventory, supplier updates) using Kafka producers/consumers for real-time analytics
- Developed and deployed time-series forecasting models (ARIMA/LSTM) to predict product demand and support inventory planning
- Delivered interactive Tableau dashboards showing KPIs, live sales insights, and forecast results, enabling data-driven business decisions

Credit Crawler – Data Extraction & Comparison System   Jun 2025 - Aug 2025
University of Windsor • Windsor, Ontario
- Installed a Java scraper with Selenium + JSoup to pull credit-card data from major Canadian banks; nightly run finishes <30 min with 98% parses.
- Implemented Boyer–Moore/KMP (keyword match), Trie (prefix), Heap (top-K), AVL Tree (sorted ranges); reduce query time 10% records.
- Exposed Spring Boot REST APIs with response caching and idempotent endpoints; simplified median latency 40% under concurrent filters.
- Developed a lightweight JavaScript compare UI (filter by APR/fees/rewards, side-by-side view); task completion time enhanced 35% in pilot tests.
- Secured access with JWT and input initialization; added robots.txt checks for scraping etiquette and JUnit tests to reach 80% coverage.

Fit-Sync App – Gym Management System   Jan 2024 - Mar 2024
Punjab Technical University • India
- Established a multi-gym scheduling platform with React and Node.js, enhancing booking efficiency
- Integrated secure payments and mobile support, boosting user engagement
- Optimized API performance, decreasing average response latency

Certification

- **AWS Certified Solutions Architect** - Associate.
- **Global Rank 545** - TCS Code Vita season 13
- Competed in Hackathon Robotrix 2.0 conducted by **National Institute of Technology Allahabad**
- Participated in ML/AI Quiz organized by **Indian Institute of Technology Roorkee (IITR)**