

# 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 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

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

## SOFT SKILLS

Communication (verbal and written), Team Collaboration, Problem Solving, Analytical Thinking, Attention to Detail, Time Management, Adaptability, Leadership, Stakeholder Management, Conflict Resolution

## EDUCATION

<b>Master of Applied Computing</b> University of Windsor Final semester requires a 4- or 8-month internship starting in May 2026	May 2025 – Present Windsor, ON
<b>Bachelor of Technology in Computer Science &amp; Engineering</b> Punjab Technical University GPA: 3.8/4	Jun 2020 – Apr 2024 India

## INTERNSHIP EXPERIENCE

<b>Digital Government Advisory Intern</b> <i>KPMG</i>	Apr 2024 – Jun 2024 <i>Noida, U.P., India</i>
<ul style="list-style-type: none"><li>• Built and optimized React + Python applications, accelerating feature delivery and improving development speed</li><li>• Refactored core modules for maintainability, decreasing technical debt and code duplication</li><li>• Applied profiling and debugging tools, cutting load times and improving stability across production apps</li><li>• Created automated unit and integration tests, simplifying QA cycles and improving release reliability</li><li>• Collaborated in an Agile team, achieving high sprint completion through cross-functional communication</li><li>• Streamlined GitHub workflows and CI/CD pipelines, reducing integration issues</li><li>• Supported client-facing deployments, lowering incident tickets and improving user satisfaction</li></ul>	
<b>Full-Stack Developer Intern</b> <i>Plutonic Services Pvt. Ltd.</i>	Jan 2024 – Mar 2024 <i>Noida, U.P., India</i>
<ul style="list-style-type: none"><li>• Designed responsive UI features with React, Flutter, and JavaScript, improving usability and engagement</li><li>• Built real-time reporting systems for usage monitoring, reducing downtime incidents</li><li>• Implemented refactoring and optimization techniques, reducing load times across modules</li><li>• Integrated REST APIs with front-end systems, lowering bug reports and improving system stability</li><li>• Conducted unit and load testing, improving production deployment success rate</li><li>• Proposed design patterns and coding practices, decreasing onboarding time for new engineers</li><li>• Partnered with QA and UX teams, improving delivery accuracy and reducing rework</li></ul>	

## Research Intern

Jul 2022 – Dec 2022

*National Institute of Technology Karnataka (NITK)*

*India*

- Researched image processing and encryption algorithms, improving recognition accuracy using MATLAB
- Developed secure transmission models, strengthening data protection and reducing vulnerabilities
- Optimized data transformation processes, reducing processing time during experimental runs
- Collaborated on academic publications in AI-driven recognition and secure communication

## PROJECTS

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### Retail Demand Forecasting & ETL Automation Pipeline

Sep 2025 – Nov 2025

*Python, PostgreSQL, Kafka, Tableau*

- 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/streaming sales data
- Simulated live retail transaction streams using Kafka producers/consumers for real-time analytics
- Developed time-series forecasting models (ARIMA/LSTM) to predict demand and support inventory planning
- Delivered interactive Tableau dashboards for KPIs, live insights, and forecasting outcomes

### Credit Crawler – Data Extraction & Comparison System

Jun 2025 – Aug 2025

*Java, Spring Boot, Selenium, JSoup, PostgreSQL*

- Built a Java scraper with Selenium + JSoup to extract credit-card data from major Canadian banks; nightly run finishes < 30 minutes with 98% parses
- Implemented Boyer–Moore/KMP, Trie, Heap (Top-K), and AVL Tree indexing to improve query performance
- Exposed Spring Boot REST APIs with response caching and idempotent endpoints, reducing median latency under concurrent filters
- Developed a lightweight JavaScript compare UI (APR/fees/rewards filters, side-by-side view), improving task completion time in pilot tests
- Secured access with JWT, added robots.txt checks and JUnit tests to reach 80% coverage

### Fit-Sync App – Gym Management System

Jan 2024 – Mar 2024

*React, Node.js, MongoDB*

- Built a multi-gym scheduling platform with React and Node.js to improve booking efficiency
- Integrated secure payments and mobile support to improve engagement
- Optimized APIs to reduce average response latency

## CERTIFICATIONS & ACHIEVEMENTS

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**AWS Certified Solutions Architect** – Associate

**Global Rank 545** – TCS CodeVita Season 13

Competed in **Hackathon** Robotrix 2.0 (NIT Allahabad)

Participated in ML/AI Quiz organized by **IIT Roorkee (IITR)**