Prahlad Ranjit

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Education

University of Toronto — Toronto, ON, Canada

Honours Bachelor of Science in Computer Science, Minor in Economics — *Sep. 2021 – Jun. 2026 (expected)*

Relevant coursework: Machine Learning, Artificial Intelligence, Software Design, Data Structures and Algorithms, Software Engineering, Systems Programming, Microeconomics, Macroeconomics

Positions: Academic Council (Computer Science Student Union), Orientation Leader (Trinity College)

Technical Skills

Languages: Python, Java, JavaScript, Bash, C/C++, HTML/CSS, C#, R
Frameworks: React, Node.js, TensorFlow, Express.js, Django, Flask, Next.js, TailwindCSS
Libraries: Pandas, PyTorch, Seaborn, Scikit-learn, Selenium, Keras, OpenCV, PyTesseract, NumPy, Matplotlib
Databases: MongoDB, PostgreSQL, MySQL
Developer Tools: VS Code, Git, Linux, Bash Shell, Docker, Google Cloud Platform
AI / Evaluation: GenAI, prompt engineering, AI agents

Experience

Systems Testing and Automation Developer — Sep. 2024 - Aug. 2025

Ministry of Health — *Toronto, ON*

- **Reduced onboarding time by 40%** by creating documentation for 6 critical webapp testing scenarios.
- Decreased issue resolution time by 30% by managing 100+ JIRA tickets across three teams
- **Improved data accuracy by 85%** by systematically updating multiple application modules
- Enhanced testing efficiency by by implementing Power Automate workflows for repetitive tasks

Research Assistant — Sep. 2023 - Dec. 2023

Adaptive and Iterative Experimentation Platform — *Toronto, ON*

- **Increased user engagement by 30%** by enhancing the data analysis interface using **React** and **Chart.js**.
- Reduced data organization time by 25% by developing a dataset viewer/manager for easy access and management.
- **Improved data interpretation efficiency by 40%** with the implementation of libraries like **Plotly** and **Matplotlib**.
- Boosted mobile engagement by 20% by ensuring the application was fully responsive across all devices.

Software Engineer — May 2023 - Aug. 2023

MSI Services — *Bengaluru, India*

- Increased **invoice data extraction accuracy** from **67% to 86%** using **OCR** technology and **ML algorithms**.
- Reduced manual processing time by 40% by automating crucial invoice data extraction and organization.
- Boosted **chatbot response accuracy by 25%** by implementing a **binary classifier** using **scikit-learn**.
- Improved project completion speed by 15% through **cross-departmental collaboration** and **workflow optimization**.

Projects

Invoice OCR & Classification | *Python, OpenCV, Tesseract, scikit-learn* — May 2023

- Developed an OCR pipeline to extract key data fields from invoices, improving extraction accuracy by 30%.
- Implemented a binary classifier to categorize documents, reducing manual review by 40%.
- Designed edge-case tests for irregular layouts and low-quality scans, increasing robustness of extraction.

University Assistant | *Python, React, Django, PostgreSQL, APIs* — Jun. 2024

- Built a React application with Canvas API integration to automatically fetch and summarize university announcements.
- Reduced reading time by 30% through AI-powered summarization in Django, improving workflow efficiency.
- Integrated Google Calendar API for one-click deadline additions, streamlining time management.
- Organized data with a PostgreSQL database for structured categorization of resources, dates, and tasks.

Data Visualization QA Dashboard | *React, Chart.js, Plotly, Pandas* — Dec. 2024

- Created an interactive dashboard to monitor data pipeline integrity, enabling rapid detection of anomalies.
- Implemented automated threshold checks to flag outliers, reducing oversight delays by 60%.
- Enhanced interpretability with multi-level filtering and drill-down charts for detailed QA reviews.