

Ditij Ganguly

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Experienced and innovative Agile full-stack software developer with over six years of experience developing cutting-edge web applications, edge applications, cloud solutions, and AI/ML Research.

Proven track record of delivering high quality services and solutions for complex large scale projects and opportunities at the municipal, provincial, and federal levels.

WORK EXPERIENCE

TD BANK | SENIOR AML ANALYST

1 year | Toronto, ON

- Scheduled, planned, scoped, and conducted testing engagements for various technical systems at the bank focused on inherent Anti-Money Laundering risk and compliance with relevant regulations, standards and policies
- Analyzed, designed and implemented test steps to methodically conduct and record all testing activity and subsequent results
- Published reports to Senior Management and key stakeholders regarding the efficacy of systems and any observations or findings, including identifying major vulnerabilities of the highest risk (T1 Findings)

SHIPPERBEE | FULL STACK DEVELOPER

8 months | Guelph, ON

- Executed full stack solutions across multiple products to support a crowd-sourced shipping service
- Delivered Analytics, Reports, and Simulations: Maps and reports tracking all packages, drivers, customers, and shipments in real-time allowing teams to make data driven decisions
- Optimized Google Maps API monthly costs by 85% for route calculations

SHERIDAN COLLEGE | RESEARCH ASSISTANT

2 years | Oakville, ON

- Researched and developed a cross-platform mobile application that detects and extracts key entities on a prescription label using Flutter and microservices
- Utilized camera streams and AR to optimize user experience for seniors with mobility issues for a "No Typing" Mobile Application
- Developed AI models to identify colours, brands, and items of clothing with industry partner Getrex Hoisery

CSDC SYTEMS | SOLUTIONS ARCHITECT

3 years | Mississauga, ON

- Created AMANDA Public Portal II: drag and drop J2EE portlets allowing citizens, grant applicants, lawyers, court officers, contractors and FOI requesters to log in, apply for permits, schedule inspections, and pay online
- Responded to and secured government RFPs worth upto \$3.2M
- Engaged municipal (Toronto, Vaughan, Austin, etc.) IT Managers and Department Heads to document business requirements and process workflow for the entire city, estimating costs and proposing solutions
- Integrated with 3rd party payment providers such as Chase Paymentech and Moneris for secure, PCI compliant payments
- Trained clients and new hires to develop, integrate, and support Public Portals

SKILLS

SOLUTIONS ARCHITECTURE

- Business Analysis
- Software Architecture
- Full Stack Development
- Machine Learning and AI/ML Solutions
- Testing and Monitoring
- Training and Support

BACK END

- JavaScript: Node.js
- Python: Tensorflow • Microservices
- Databases: Postgres • MYSQL • Oracle
- Cloud: Azure • GCP • IBM • AWS
- NVIDIA NGC

FRONT END

- Typescript: Angular • React
- Mobile App Development: Flutter
- Java (J2EE): Portlets • JSP • JDBC
- iOS (Swift) • Android (Java, Kotlin)

MACHINE LEARNING

- Virtual Assistant (Chatbot) Development
- Computer Vision - Text, Image, Video
- Edge Computing

EDUCATION

SHERIDAN COLLEGE

HONOURS BACHELOR OF COMPUTER SCIENCE - (MOBILE COMPUTING)

THESIS PROJECT

Researched and prototyped Applied Machine Learning Solution that annotates and describes comics and manga for persons with visual impairments.

PUBLICATIONS

On the Design of Therapy Tracker: A Cross-platform Medication Management Application with Augmented Reality and Machine Learning.