

NOEL YOHANNES GHEBREMESKEL

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EDUCATION

- York University, Lassonde School of Engineering** Toronto, ON
Bachelor of Arts, Specialized Honours in Digital Media (Development Stream) *Expected 2027*
– **Coursework:** Advanced Object-Oriented Programming, Software Tools, User Interfaces, Creative Coding
- Seneca Polytechnic** Toronto, ON
Advanced Diploma, Computer Programming & Analysis *2020 – 2023*
– **Coursework:** Cloud Computing, Software Analysis and Design, Project Planning and Management
– **Award:** President's Honour List (4.0 term GPA), 2022

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, SQL, HTML, CSS
Frameworks & Tools: React.js, Git, ArcGIS Online, Jira, Flowable, Excel
Cloud & DevOps: AWS (Lambda, Cognito, Amplify, QuickSight, Redshift), Docker, Kubernetes
Languages: Italian (Native), English (Fluent), Tigrinya (Native)

WORK EXPERIENCE

- MPAC (Municipal Property Assessment Corporation)** Toronto, ON
Junior Systems Developer (Full-Time Contract) *Apr 2025 – Oct 2026*
– Built a React work-object investigation dashboard from the ground up with a staff AI engineer: KPIs, backlog aging, regional breakdowns, closure trends, and a weekday-aware closure projection over AWS Redshift data
– Deployed an AWS QuickSight dashboard to replace a blocked Power BI rollout; delivered both dashboards to the VP
– Rebuilt legacy sign-in with AWS Amplify and Cognito, adding MFA and Google reCAPTCHA bot protection
– Built an AWS Lambda post-authentication trigger to collect login metrics, and automated weekly user reports
– Re-architected ArcGIS field mapping to fetch aliases via the Esri REST API, ending schema-change redeloys
– Fixed ArcGIS Online Insight rendering to hide system and invisible fields and show raw dates as readable timestamps
– Fixed an iOS crash and a spatial hit-testing bug for field valuers; added tab-key navigation and CSS stacking fixes
– Took ownership of data-drift validation across 12 business domains after a teammate left, with daily verification
– Trained a summer student on field-support workflows and wrote guides for property roll-number mismatches
– Handled 280 tickets across both roles, including stuck Flowable cases resolved within SLA, under change management
- Junior Systems Developer (Co-op)* *Jan 2023 – Sep 2023*
– Automated company-wide offboarding on AWS Lambda (Python): Facilities/Communications notices and Jira tickets
– Built Intro.js onboarding/offboarding walkthroughs, enforced role-based endpoint authorization, and wrote unit tests
– Modernized UI components, including a login page redesign and a theme-switcher toggle with custom SVG icons

PERSONAL PROJECTS

- Casefile – AML Investigation Assistant | Python, LangGraph, SQLite, React, TypeScript** **2026**
– Built an AI agent that drafts anti-money-laundering case write-ups; plain code checks every amount, date and ID
– Wrote a verifier that flagged all 417 deliberately corrupted claims, with 0 of 994 clean claims falsely flagged
– Developed a FastAPI REST API over read-only, parameterized SQL tools, a React/TypeScript UI and 36 tests in CI
- RootCause – Incident Diagnosis Agent | Python, LangGraph, FastAPI, React, OpenTelemetry** **2026**
– Built an on-call agent that finds why a microservice broke, then re-queries metrics and traces to prove it
– Simulated a 15-service online store with 10 OpenTelemetry Demo failure flags, so every test has a known answer
– Wrote 52 automated tests plus a CI check that fails the build if diagnosis accuracy drops more than 5 points