Hanad Hirsi

Software Developer

613-913-7961 | hanad5670@gmail.com | LinkedIn | GitHub | Portfolio

Education

Carleton University Ottawa, ON

Bachelor of Computer Science, AI and Machine Learning *Sep 2020 - Apr 2025*

Experience

Web Developer Sep 2024 - Dec 2024

Kongsberg Geospatial *Kanata, ON*

- Engineered a live weather-fetch dashboard feature that enabled users to query backend weather APIs and submit custom entries, reducing friction for users and accelerating weather-dependent workflows
- Orchestrated seamless RESTful API integration, enhancing geospatial data refresh speed by 25% through coordination with backend team and frontend state updates
- Maintained a high-availability React/Redux UI system servicing concurrent users, reducing stale-state occurrences by 35% and improving session stability through structured TypeScript typings

Software Engineering Intern Jan 2024 - May 2024

Anvil *Ottawa, ON*

- Resolved 15+ critical bugs across frontend and backend, improving platform stability and reducing QA regression cycles by 20% through React, Django and TDD principles
- Implemented a Cypress-based automated testing suite, boosting test coverage by 40% and reinforcing platform reliability
- Designed a dynamic loading screen to enhance UX during data fetches, reducing perceived wait times by 25% via optimized frontend rendering in React

Data Science Intern May 2023 - Aug 2023

Office of the Superintendent of Financial Institutions *Ottawa, ON*

- Constructed PyTorch-based NLP pipelines to summarize earnings reports, increasing model inference by 30% and enabling analysts to extract insights faster
- Processed 50k structured records using Python and VBA to accelerate data ingestion workflows by 30%
- Automated Excel data aggregation via Python scripting, reducing report generation time for financial analysts

Software Developer Jan 2023 - Apr 2023

Flexera *Kanata, ON*

- Employed React and Golang to process real-time billing from AWS/Azure/GCP, enabling clients to reduce multi-cloud spend by 30 to 40%
- Optimized and containerized 3 microservices using Docker and Kubernetes, trimming service startup latency by 30% to improve platform responsiveness
- Developed frontend and backend features for Snow Cloud Cost platform, facilitating dashboards with 50+ savings recommendations

Projects

OmniWatch | *Python, React, MongoDB* Mar 2024

- Developed a Python CLI-based application that simulates navigation through a building layout, incorporating role-based access control for different user types (student, staff, admin) to enhance security and user experience.
- Integrated Solace PubSub+ Event Broker using the MQTT protocol to establish real-time, bidirectional communication between the backend and a React front-end, enabling dynamic logging of user movements across rooms for improved monitoring and analytics.
- Achieved 1st place for the Solace challenge in the uOttawa 6 hackathon

Technical Skills

Languages: Python, Golang, C, C++, Java, SQL, JavaScript, TypeScript, CSS, HTML5
Frameworks: React.js, Node.js, Express.js
Developer Tools: Git, Docker, Kubernetes, Jira, Confluence, Swagger/OpenAPI, SumoLogic, Vim
Libraries: Redux, NumPy, SciPy, PyTorch, TensorFlow, Pandas, Scikit-learn