ANNE DANG

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EDUCATION

Carleton University, Ottawa   **Sep 2021 - May 2026**
Bachelor's degree of Computer Science
– CGPA: 3.8/4.0; received the Entrance International Award of Excellence and on Dean's list since 2021.

EXPERIENCE

Searidge Technologies — Platform Developer Intern   **Jan 2025 - Aug 2024**
– Automated Kubernetes deployments using Helm and GitLab CI/CD, streamlining multi-environment workflows.
– Integrated Harbor registry with Rancher-managed RKE2 clusters to secure and manage container image distribution.
– Troubleshot and configured Strimzi Kafka with Keycloak-based OAuth2 authentication for secure event streaming.
– Customized ingress routing and branding across Rancher UI using NGINX annotations and Helm chart overrides.
– Diagnosed and resolved network, storage, and TLS issues across Kubernetes workloads and internal services.
– Centralized platform operations by customizing Rancher UI, enabling streamlined access to internal services and tools.

KMS Healthcare — Software Engineer Intern   **Jun 2024 - Sep 2024**
– Fine-tuned model using Seq2Seq technique and 7000 values from Kaggle dataset increasing accuracy to 80 percent.
– API integration with Qdrant vector database for dynamic disease profile generation from symptoms.
– Visualized and manipulated data using Python libraries such as Matplotlib and Pandas.
– Designed and implemented responsive UI components using TypeScript, Bootstrap, and JSX for seamless interaction.
– Set up automated deployment across different environments with Miniconda, Docker and Poetry.
– Researched and developed GenAI projects, aligning with medical guidelines and contributed architectural discussions.

Intega IT — L1 Desktop Support Specialist   **Sep 2023 - Dec 2023**
– Utilized applications Autotask, and Field Effect helps maintaining a 95 percent positive feedback rating from end-users.
– Resolved 1400 application, printer, and network support tickets in 4 months, reducing resolution time by 30 percent

PROJECTS

OpenAI Review & Guide Agent   ⌗ Python, Llama, QDrant, FastAPI, Docker, Streamlit
– Developed an OpenAI agent to answer questions related to given datasets, utilizing Wiki library for irrelevant queries.
– Utilized QDrant vector database for storage and retrieval of vectorized data.
– Created API endpoints with FastAPI to manage queries and responses.
– Containerized the application using Docker for streamlined deployment.

Hack the Flush   ⌗ React, FastAPI, Firebase, Solace PubSub+ Cloud
– Built a real-time bathroom occupancy tracker that leverages IoT data streaming through Solace PubSub+ Cloud.
– Developed the frontend in React and backend APIs using FastAPI, with live updates synced via Firebase.
– Designed an intuitive UI and integrated real-time sensor data for practical public facility monitoring.

Museum of Flowers   ⌗ Python, PostgreSQL, React, Bootstrap
– Developed a user-friendly website for booking and managing museum tickets with responsive design.
– Implemented backend with Python and PostgreSQL, including RESTful APIs for data interaction.

TECHNICAL SKILLS

– **Programming:** Python, C/C++, Java, JavaScript, TypeScript
– **Frameworks & Development:** Node.js, React, Bootstrap, FastAPI, HTML, CSS
– **Cloud & Platform Tools:** Docker, Kubernetes (RKE2), Helm, Rancher, GitLab CI/CD
– **Monitoring & Auth:** Grafana, Prometheus, Keycloak, Solace PubSub+ Cloud
– **Databases:** PostgreSQL, MongoDB, Qdrant, Firebase
– **Tools & Environments:** Git, GitHub, GitLab, Miniconda, Poetry, Heroku, Streamlit, QT Creator
– **Operating Systems:** Linux (Ubuntu), Windows, macOS