Jacob Dam

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EDUCATION

University of Windsor　　　　　　　　　　　　　　　　　　**Expected Graduation: April 2026**
Bachelor of Computer Science Honours　　　　　　　　　　　　　　　　*Cumulative Avg: 93.5%*
- **Relevant Coursework:** Data Structures and Algorithms, Systems Programming, Object Oriented Programming

EXPERIENCE

Glendor　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Software Developer Intern　　　　　　　　　　　　　　　　　　　　*Sep 2024 - Present*
- Developing a video pipeline with **Python** and **OpenCV** to identify and censor personal information in medical data
- Training and fine-tuning text, speech and object detection models such as **YOLOv5**, **Whisper** and **EasyOCR**

FimiMall　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Software Developer　　　　　　　　　　　　　　　　　　　　　　*Jan 2024 - Sep 2024*
- Designed and developed a product filtering system for an e-commerce site with **Elasticsearch** and **Java SpringBoot**, enhancing search precision and user navigation for **10,000+** users
- Leveraged **MongoDB** and **SpringBoot** to build a measurement chart management system for **50+** retailers
- Configured **Kafka** topics to enable event-driven communication between web app microservices
- Streamlined client account registration processes by **70%** by creating **Shopify API** webhook endpoints

Fair Grant Limited　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Software Developer　　　　　　　　　　　　　　　　　　　　　　*Jan 2024 - Mar 2024*
- Spearheaded the development of a grant-writing AI chatbot with **Python** and **Rasa**
- Collaborated with audio technicians to integrate and fine tune chatbot voice functionality using audio libraries
- Utilized **Pandas** to organize **hundreds** of sample grant applications which improved chatbot writing proficiency by **20%**
- Deployed the chatbot with **AWS Lambda**, facilitating user testing and feedback collection from over **50+** customers

Data Annotation　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
AI Prompt Engineer　　　　　　　　　　　　　　　　　　　　　　*May 2024 - Present*
- Refining AI responses through comprehensive assessment and training, improving model accuracy scores
- Evaluated generated code containing **C++**, **C**, **Python**, and **Java**, providing suggestions for model improvements

University of Windsor　　　　　　　　　　　　　　　　　　　　　　**Windsor, ON**
Teaching Assistant　　　　　　　　　　　　　　　　　　　　　　*Sep 2024 - Present*
- Leading lab sessions for 100+ students, teaching fundamental computer science concepts
- Holding office hours to provide individual support and clarify complex concepts to students

PROJECTS

Chess Tournaments
- Building a web-app that allows users to quickly create chess tournaments, using **Express.js**, **Node.js** and **PostgreSQL**
- Utilized **JWT** tokens and **Postgres** to create a robust and secure user login, authentication and storage system.
- Leveraged **WebSockets** and **Socket.IO** to develop a real-time, interactive chess match experience

Dungeon Game | *github*
- Developed an interactive 2D scroller game, using **Java Swing**, incorporating object oriented design principles
- Created a **Python** scripts to automate sprite sheet splitting and file organization

SKILLS

Languages: Java, Python, JavaScript, C, SQL, HTML5, CSS
Tools & Frameworks: SpringBoot, Node.js, MongoDB, Postgres, Elasticsearch, Docker, Kafka, Rasa, Maven, Pandas, JUnit