

# ALTON LAVIN D'SOUZA

Edmonton, Alberta

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## EDUCATION

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### University of Alberta, Edmonton, AB

Masters in Electrical & Computer Engineering  
Overall GPA: 3.7

August 2023 - May 2025

### Christ University, Bangalore, India

Bachelors in Computer Science & Engineering  
First Class

June 2016 - March 2020

## EXPERIENCE

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### Prar Labs

Artificial Intelligence Intern

May 2024 - Present  
San Francisco, CA (Remote)

- Worked on creating a chat bot that can answer medically related questions and also fetch and summarize patient records.
- Used technologies like Python, FastAPI, HuggingFace, LangChain and MongoDB Cloud Atlas, Docker and NVIDIA CUDA.
- Made use of pretrained models like Llama to create a RAG bot.
- Made use of few shot prompt examples to fine tune responses.
- Integrated the LLM with AUSA Medical Platform
- Working on fine tuning responses for specific use cases and creating agents.

### Oracle Cerner

Software Engineer

December 2019 - August 2023  
Bangalore, India, Karnataka

- Worked on maintaining and building medical device drivers for the CareAware EHR Platform
- Used technologies like Terraform, Java and Python
- Mentored and onboarded new team members and interns
- Collaborated in Design and Development of Careware EHR Services and products
- Created Integration testing framework for medical device drivers
- Promoted IaC adoption in the team.

## CERTIFICATIONS

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### AWS Certified Machine Learning Specialty

Score: 823/1000

December 2019 - August 2023  
Edmonton, AB

- Met competencies in Data Engineering, Exploratory Data Analysis, Modeling and Machine Learning Operations.

### Advanced Certification for Artificial Intelligence in Digital Health and Imaging

Final Grade: A

December 2019 - August 2023  
Edmonton, AB

- Explored Topics like Digital Health, Wearable Devices and physiological Signal Processing, Machine Learning, Deep Learning and its Applications, Deep Learning in Imaging and Vision

## TECHNICAL STRENGTHS

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### Computer Languages

### Deep Learning Frameworks

### Machine Learning and Visualization Frameworks

### Cloud

Python, Java

Pytorch and Tensorflow

scikit-learn and sklearn, seaborn, pandas and matplotlib

Terraform, GCP, AWS and OCI