# RAYMART BLESS DATUIN

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#### Education

#### University of Alberta

Bachelor of Science in Computer Engineering

• Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Software Engineering, Discrete Mathematics, Database Management Systems, Linear Algebra, Probabilities and Statistics

#### Work Experience

#### **Experience Ventures**

Project Manager

- Delivered a minimum viable product 3 weeks ahead of schedule by managing 10-person cross-functional team and leveraging Kanban workflows, improving delivery speed by 25%.
- Aligned project goals with stakeholder expectations by defining key milestones and weekly status updates, resulting in 100% approval rate on proposed iterations.
- Facilitated collaboration across development, QA, and design teams using GitHub Projects, reducing communication errors by 40% and ensuring a 95% task completion rate.

#### Sunmor Research Inc.

Machine Learning & AI-integrated Medical Software Developer

- Secured \$1 Million Dollars in funding by developing a functional brain-computer interface demo with EEG integration, and presenting it to multiple client partners and CSPS conference.
- Increased clinician usability by 70% through developing a PyQt6 interface, integrating feedback from 30 user testing sessions.
- Achieved 100% hardware compatibility with 3 major EEG device types by implementing efficient C + + /Cy thon bindings and backend modules in **Python**.

#### Student Team for Alberta Rocketry Research (UASTARR)

Software Team Lead

- Boosted team productivity by 40% and cut dev time by 50% through leading Agile sprints and launching the UASTARR website using Node.js and Express.
- Reduced project onboarding time by 60% by writing thorough documentation and training 6+ new developers on Git, JS, and backend workflows.
- Cut project hosting and development costs by 90% by optimizing resource usage and migrating to cost-efficient open-source tools.

#### Projects

#### **Auto-Scaling Cloud Microservices**

- Developed a reactive auto-scaling engine that optimized microservice count based on response latency, improving system reliability while reducing resource usage
- Deployed scalable architecture using **Docker** on Cybera cloud; integrated CI/CD pipelines for automated testing and deployment

#### Asteroids Game AI Controller

- Created an AI agent using a Genetic Fuzzy Algorithm, achieving 60% accuracy and securing 3rd place in a university-wide competition
- Leveraged genetic algorithms and fuzzy logic rules to improve strategic AI bot gameplay performance

#### Simple CPU on FPGA

- Built a controller-datapath CPU architecture on FPGA with SIMD support, executing arithmetic, logic, and control instructions
- Verified design with custom test programs and FSM-driven instruction execution, demonstrating hardware proficiency

#### Technical Skills

Languages: Python, Java, JavaScript, C/C++, C#, HTML/CSS, MATLAB, Bash Tools: Git, Docker, Linux, MySQL, MongoDB, SQLite, Agile, Site Reliability Engineering, DevOps Frameworks/Libraries: ReactJS, NodeJS, ExpressJS, Bootstrap, TensorFlow/Keras, Flask, PyQt6 Specialties: AI/Machine Learning Pipeline, Deep Learning, Genetic Algorithms, Fuzzy Logic, Microservices, FPGA/VHDL

# May 2024 - Aug 2024

### Edmonton, AB

#### Jan 2021 – April 2024 Edmonton, AB

# Sep 2024 – Apr 2025

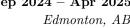
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Python | Docker | Flask

VHDL | Vivado | FPGA

### Python | EasyGA | scikit-fuzzy



## Sep 2020 – Apr 2025

