Raymart Bless Datuin

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Education

University of Alberta Sep 2020 – Apr 2025
Bachelor of Science in Computer Engineering *Edmonton, AB*

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

Work Experience

Experience Ventures Sep 2024 – Apr 2025
Project Manager *Edmonton, AB*

- 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. May 2024 – Aug 2024
Machine Learning & AI-integrated Medical Software Developer *Edmonton, AB*

- 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++/Cython** bindings and backend modules in **Python**.

Student Team for Alberta Rocketry Research (UASTARR) Jan 2021 – April 2024
Software Team Lead *Edmonton, AB*

- 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 **Python | Docker | Flask**

- 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 **Python | EasyGA | scikit-fuzzy**

- 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 **VHDL | Vivado | 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