

## Education

**Master of Engineering** **University of Calgary** **Nov 2023**

- Specialization in Software Engineering, GPA: 3.9
- Databases, Data Mining, Machine Learning, Algorithms, Data Structures, Software Architecture & Testing

**Bachelor of Science** **University of Calgary** **Apr 2022**

- Major in Electrical Engineering, GPA: 3.4
- Programming Fundamentals of Software and Computer, Computer Networks, Principles of Software Development

## Experience

**Software Engineer Intern** **Benevity** **May – Aug 2023**

- Collaborated with a team to develop a feature similar to Spotify's yearly 'Wrapped' summaries for Benevity's platform (10M+ users), aimed at showing gratitude to users and promoting brand awareness.
- Practiced Agile methodology to deliver a high-quality product for the product owner, assisted with Sprint planning, and led weekly meetings to demo progress, gather feedback, and ensure that the owner's expectations were met.
- Utilized Figma to design visually appealing infographics, contributed to planning the application workflow and to developing the Frontend (Vue), with a focus on building a user-friendly interface.
- Assisted in designing the Backend architecture (followed SOLID principles) and the development of RESTful APIs (Java, Spring Boot), to facilitate communication with Benevity's database and seamless Frontend-Backend interaction.
- Conducted extensive tests throughout the project to ensure software reliability by identifying and resolving bugs.
- Set up a CI/CD pipeline with Jenkins for automated testing and streamlining serverless deployments onto AWS (utilizing Docker, EC2 instance, S3 bucket, JUnit tests, GitHub).

**Project Manager Intern** **Siemens Energy** **May 2021 – Aug 2022**

- Supported lead project manager throughout multiple project lifecycles, focused on project efficiently and client satisfaction.
- Collaborated with cross-functional teams to coordinate tasks, equipment needed, team availability, and scheduling accuracy.
- Oversaw procurement tasks, obtained quotes, inventory, site logistics, and supported the team on-site with emergent needs.
- Managed timely completions of certifications, tests, and training for team members to meet site compliance requirements.
- Recorded progress, tracked expenses and reported to lead project manager, ensured project was on track and within budget.
- Maintained open communication with clients, delivered updates, addressed on-site issues, and outlined next steps.
- Reviewed and edited daily reports, contributed to the final project reports and validated compliance with deliverables.
- Worked on-site with the field service team to complete transformer assembly and maintenance tasks, providing support when the team needed extra hands.

## Projects

To view more info on my projects, kindly refer to my [website](#) or [GitHub](#)

**Airbnb Price Prediction** **Machine Learning (AI)**

- Developed a pricing prediction model for Airbnb listings, categorized prices as GREAT, GOOD, or OK based on property details to assist Airbnb hosts in pricing their properties accurately and allow customers to evaluate pricing fairness.
- Labeled data and built a sentiment analysis model to evaluate reviews as positive, negative, or neutral.
- Improved data quality by preprocessing reviews through stop word removal, snowball stemming, and other techniques.
- Utilized Databricks, PySpark, and Python to efficiently process a dataset of 100,000+ rows through distributed computing.
- Explored various feature extraction methods, algorithms, and fine-tuned hyperparameters to optimize model performance.

## Skills

- **Machine Learning:** Scikit-learn, TensorFlow, PySpark, Databricks, Natural Language Processing (NLP)
- **Languages & Frameworks:** Java, Python, C++, HTML, CSS, JavaScript, Vue, Bootstrap, SQL, Spring Boot, Flask
- **Testing:** Jira, JUnit, Selenium, Manual / Automated Test Plans, Code Coverage, Black & White Box / Mutation Testing
- **Other:** Object Oriented Programming (OOP), SOLID principles, AWS, Docker, Jenkins, CI/CD, Git, Slack, Agile
- **Certificates:** Lean Six Sigma White Belt, AWS Cloud Practitioner, AWS Solutions Architect Associate