# Jinseo Lee

(587) 889-8735 | ✉ jinseo_lee@outlook.com | 🏠 https://jinseo99.github.io/Portfolio-Website | ⌂ jinseo99

## EDUCATION

**University of Calgary**  **Aug 2017 – May 2023**

*Bachelor of Science, With Distinction, Internship Program,*
*Majors Software Engineering, Specializes Biomedical Engineering*  *Calgary, AB*

- 3.61/4.0 CGPA
- Relevant Courses: Software Requirements, Systems Design, System Architecture, Software Testing

## Professional Certificate

**AWS Certified Developer — Associate (DVA)**  **Dec 2023**

## TECHNICAL SKILLS

**Programming Languages:** *Python, Java, C/C++, JavaScript*
**Databases***: SQL, MySQL, MongoDB*
**Operating Systems:** *Linux, MacOS, Windows*
**Web Frameworks:** *React, Django*
**Tools:** *GIT, GitHub, Docker, AWS, Azure, JIRA, Tensorflow, Keras, VBA*

## RELEVANT EXPERIENCE

**TC Energy**  **May 2021– Aug 2022**
*ICS (SCADA) Infrastructure and Operations Intern*
- Monitored SCADA infrastructures, addressing hardware and software failures, as well as performance issues.
- Successfully managed more than 2000 ServiceNow tickets, meeting acceptable customer response service times.
- Leveraged PowerShell, VBA, Azure DevOps and Blue Prism for automating repetitive tasks and optimizing business processes.
- Created detailed scheduled reports leveraging SQL and Solarwind to optimize monitoring of SCADA infrastructures.

**Schulich UAV**  **Oct 2020 – Apr 2021**
*Software Engineering Member*
- Implemented user interface for club website using JavaScript on React Framework.
- Utilize and implement changes on Ardupilot on C++ for route detection, temperature control and wifi functions.
- Tested Ardupilot functions with 360-degree lidar on the aircraft for wall detection.

**University of Calgary**  **May 2019 – Aug 2019**
*Machine Learning Intern*
- Leveraged python and computer vision libraries such as cv2, numpy and matplotlib on Spyder IDE to develop computer vision and deep learning algorithms.
- Conducted research on "Characterization of Deep Learning Features for Advanced Interpretation of Disease Properties in Magnetic Resonance Imaging".
- Established a python virtual environment on Linux and crafted SLURM scripts for efficient batch job execution.

## Projects

**Site Select:** (Unreal Engine (UE) Blueprint, C++, Python)
- Designed a radar simulation tool for calculating the Visual Line of Sight of Unmanned Aerial Vehicles (UAVs) using the Unreal Game Engine, C++, and Python.
- Utilized C++ and UE Blueprint to compute and optimize algorithm for line of sight from user-selected geographic locations.
- Generated heatmaps and exported them as KML files for visualizing geographic data in Google Earth.

**Riddle Room:** (NodeJS, React.js, Mongo DB, AWS)
- Developed a full-stack web app enabling users to chat and solve riddle questions.
- Implemented REST API, enabling efficient and structured data exchange between client and server.
- Leveraged AWS EC2 and S3 bucket to store game state snapshots, ensuring server failover, replication, and synchronization.

## AWARD & RECOGNITION

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|---|---|
| **Undergraduate Research Experience Award** for outstanding research proposal | **2019** |
| **Alexander Rutherford Scholarships** for academic excellence | **2019** |
| **CKSF Regular Scholarship** for academic excellence and leadership | **2018** |
| **University of Calgary International Undergraduate Award** for academic excellence | **2018** |
| **Dean's List** for academic excellence (3.6+ GPA) | **2018** |
| **President's Admission Scholarship** for academic excellence | **2017** |

## ADDITIONAL EXPERIENCE

**Orpyx Medical Technologies**                                                                                    **Jan 2020 – May 2020**
*Electronics Technician (Contract)*
- Optimized teamwork and workflow by providing technical support to team members and communicating regularly in SOP terms.
- Managed 3 to 4 tools simultaneously by coordinating priorities and adhering to SOP.

**MathPro**                                                                                                                **June 2018 – Dec 2019**
*Science and Math Tutor (Part-time)*
- Provided in person tutoring in Science and Math to 5 students per semester with an average student grade improvement of 20%.
- Designed personalized lesson plans based on student's study habits to aid student understanding.

**Dairy Queen**
*Customer Service Attendant (Part-time)*                                                                    **May 2018 – Mar 2020**
- Managed high volume of order by organizing workstation and following procedures

**The First Korean Presbyterian Church of Calgary**                                            **Sep 2015 – Sep 2019**
*Worship Leader (Volunteer)*
- Trained and directed team of 7+ in worship band for congregation size of 300+.
- Managed 700+ musical files in spreadsheets to reduce printing costs by 50%+.
- Arranged practice schedules and prepared musical documents for weekly practice sessions.