

Jinseo Lee

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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)

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)

Sep 2022 - Apr 2023

- 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)

Jan 2023 – Apr 2023

- Developed a full-stack web app enabling users to chat and solve riddle questions.
- Enhanced user experience by contributing expertise in REST API design and implementation, 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.

GoLF Compiler: (C, Flex, Bison)

Jan 2023 – Apr 2023

- Created a C compiler that translates Go Language Fragment (GoLF) to a MIPS Assembly Language.
- Developed Lexical Analyzer, Syntax Analyzer, Semantic Analyzer and Code Generator leveraging C, Flex and Bison.

Multi-axial transducer Application: (Matlab, Verasonics Vantage System)

Sep 2022 – Dec 2022

- Developed application for Research Ultrasound System (Verasonics Vantage System) with capabilities to control wave functions of individual transducers.
- Enhanced user experience by creating GUI for navigating basic functions for transducer setup.

AWARD & RECOGNITION

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.