

# PETER JIANG

## SOFTWARE ENGINEER INTERN

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## WORK EXPERIENCE

### Key Account Manager

North America Electrical Energy Equipment Co., Ltd

📅 June 2017 - December 2022

📍 Toronto, ON

- **Managed client relationships** as the primary point of contact for key accounts, ensuring customer satisfaction by addressing client needs, providing regular updates, and delivering tailored solutions. Developed strong interpersonal and negotiation skills through continuous interaction with clients and internal teams.
- **Collaborated cross-functional teams** (sales, engineering, and production) to understand complex customer requirements and translate them into actionable manufacturing solutions, ensuring alignment between client expectations and production capabilities.
- **Facilitated multi-phase projects** from initiation to delivery, overseeing project timelines, resource management, and deliverables. Successfully delivered large-scale projects on time and within budget by coordinating efforts across departments and managing key challenges.

## PROJECTS

### Dictionary Data Structure

- Developed a **custom dictionary data structure** in C, implementing core functions like `map_add()`, `map_find()`, and `map_remove()` to efficiently manage **key-value pairs**.
- Utilized **GDB** for **testing**, including **debugging**, **simulating** different edge cases to resolve memory leaks and ensure functionality across a variety of scenarios.
- **Optimized the data structure for performance**, ensuring it handled edge cases and memory management challenges effectively.

### Student Residence Management System

- Built a **Java-based management system** for student housing, automating tasks like profile creation, assignment tracking, and bed allocation for residents.
- Designed a **user-friendly interface** to simplify **data input/output**, improving the efficiency of residence operations and enhancing user experience.
- Implemented robust **exception handling** to **prevent application crashes** and ensure smooth processing during large-scale data operations.

## EDUCATION

Bachelor of Science

Honours Computer Science  
(Software Engineering Option)

University of Saskatchewan

📅 2023 - current

🎓 Grade: 84.44/100

### Awards

- Golden Key International Honour

### Relevant courses

- Computer Organization and Architecture
- Data Structures and Algorithms
- Intermediate Software Engineering
- Algorithm Design Analysis and Correctness

## SKILLS

### PROGRAMMING LANGUAGES

- Java, JavaScript, HTML/CSS, Python, C, C++, Assembly

### TOOLS

- Git, Pycharm, VS Code, IntelliJ, R, Makefile, Bash, GDB, QEMU

## ACTIVITIES

- Volunteer - **Google Developer Groups** Saskatoon
- Volunteer - **USASK Career Fair**
- Member - **USASK Cyber Security Club**
- Mentee - **USASK Connect Mentor Program**
- Notetaker - **USASK Access and Equality Services**