

# LANG SU

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## SKILLS

- .....
- C, C++, Java, JavaScript, R, Python, Bash, MATLAB
  - Web development: HTML, CSS, React.js, D3.js, Bootstrap, jQuery, JSON, AJAX
  - Server and Database: MySQL, MSSQL, NodeJS, Express.JS, REST API
  - Solid knowledge in Algorithm, Data Structure, test methodologies and design pattern

## PROFESSIONAL SUMMARY

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- Exceptional critical thinking and problem solving skills acquired in challenging courses
  - Strong communication skills and teamwork skills developed through working experience
  - Comfortable with agile development; able to withstand pressure in a fast-moving team
  - Well organized with an analytical mind; Self-motivated and detail-oriented

## WORK EXPERIENCE

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May 2017 — Aug 2017

**Software Engineer Intern** | *TRU Simulation + Training. Inc* | *Montreal, QC*

- Designed new search engine server using **Node.js** for core searching services
- Provided quality **SQL** queries to improve database performance by **70%**.
- Designed a multi-functional web application in **JavaScript** with data plotting function in **D3.js**
- Developed and implemented complex searching **algorithm** to boost server calculation speed.
- Designed and maintained **APIs** and documentation to support build-in searching function
- Collaborated with team members to create automation tool to support simulator test station.
- Enhanced data visualization and interaction by integrating with **Microsoft PowerBI**

## PROJECTS

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Nov 2017 — Present

**CarpoolX** | *Full-Stack Development* | *React.js, Node.js, MySQL*

- Built search-friendly application platform to improve efficiency of searching carpool offer
- Conceived unique ranking algorithm solutions to intelligently extract carpool posts
- Developed creative features to simplify communication between clients

Oct 2016 — Dec 2016

**ChamberCrawler3000** | *Group Project Development* | *C++*

- Structured and implemented the main architecture using appropriate design pattern
- Implemented test methodologies and processed complete software evaluation

Oct 2017 — Nov 2017

**Simon Game** | *Android, Front-end Development* | *Java, JavaScript, Bootstrap*

- Provides both Android and Web applications with satisfying user experience
- Implemented an interactive user interface using MVC architectural pattern

## EDUCATION

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Sep 2015 — May 2019

Honours Computer Science, University of Waterloo, Waterloo, ON