

# Akash Sant

✉ acsant@uwaterloo.ca | 📞 (647)-803-0004 | 🌐 acsant | 📄 acsant

## SKILLS

**LANGUAGES:** Java, C++, Python, JavaScript  
**TOOLS:** AWS, NPM, Git, Webpack, Spring, Solr

**BACKEND:** Node.js, MySQL, MariaDB, MongoDB  
**FRONTEND:** React, Android

## EDUCATION

**UNIVERSITY OF WATERLOO** | Candidate for Bachelor of Software Engineering

Expected Apr 2018

## EXPERIENCE

### REDFIN | SOFTWARE ENGINEERING INTERN

Sept - Dec 2017

San Francisco, California

- Worked on property listing details page, Redfin's most visited progressive web application
- Built a media browser, using React, to allow millions of users to view, share, and favorite home photos and 3D tours
- Caused a 7.85% lift in first home tour requests as measured by Redfin's A/B testing framework
- Developed a performant lazy-loading library for React as an in-house substitute for react-lazyload

### ORACLE | NETSUITE | SOFTWARE ENGINEERING INTERN

Jan - Apr 2017

San Mateo, California

- Helped develop a finance and accounting suite to support transactions in foreign currencies for multiple foreign subsidiaries
- Developed a customizable history tracking system for an accounting suite used by over 30,000 enterprises
- Designed an Oracle database schema and back-end services in Java to support history tracking and auditing on custom fields

### LYRICFIND | FULL STACK DEVELOPER

May - Aug 2016

Toronto, Ontario

- Helped develop and maintain song lyrics licensing platform used world-wide by music and media industries
- Improved song search and filtering performance from ~10s to ~0.5s for over 2 million requests using Solr
- Built a licensing requests platform, using Java, Solr, and JavaScript, allowing clients to submit song licensing requests

### MAGNET FORENSICS | SOFTWARE DEVELOPER

Sept - Dec 2015

Waterloo, Ontario

- Developed features for extracting data from Facebook profiles, Snapchat and text messages from the device image using C#
- Worked with concurrent codebase for Magnet Internet Evidence Finder (IEF) application - digital evidence search engine
- Implemented cloud searching capabilities into the Magnet IEF to retrieve evidence from the cloud services such as AWS

### TD CANADA TRUST | SOLUTIONS DEVELOPER

Jan - May 2015, Jan - May 2014

Toronto, Ontario

- Designed a project evaluation platform using Java Business Process Management workflow engine, Node.js, and AngularJS
- Automated project management tools, increasing project work productivity by 60%

### CANADIAN BLOOD SERVICES | SOFTWARE DEVELOPER

May - Sept 2013

Ottawa, Ontario

- Developed an online event scheduling system, used nation-wide, using Java, JSF, XHTML, CSS, and MySQL

## PROJECTS

### POOL | CURRENT PROJECT

- Built a platform for booking intercity carpool rides with an invite system and in-app trip chat
- Setup dual layer authentication (Facebook and JWT token verification) system for user sign-up and login
- Mitigated a DOS attack and ensured the services were uninterrupted

### OPERATING SYSTEM KERNEL

- An OS kernel for ARM Cortex M3 processor (with time slice) using system level C
- Implemented a process manager to control user and system processes, scheduler, and context switching
- Designed a memory management system for initialization and dynamic memory allocation for user processes