Akash Sant

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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

COPILOT | Current Project
- Built a platform for booking intercity carpool rides
- Setup dual layer authentication (Facebook and JWT token verification) system for user sign-up and login

SECPI
- A security platform and admin interface, built using a Raspberry Pi, Node.js, Webpack and React flux architecture

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