

Akash Sant

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SKILLS

LANGUAGES: Java, C++, C, Python, JavaScript
FRONTEND: React, CSS, jQuery, Android

BACKEND: Node.js, MySQL, MariaDB, MongoDB
OTHER: NPM, vim, Git, Webpack, Spring, Solr

EXPERIENCE

LYRICFIND | FULL STACK DEVELOPER

May – Aug 2016

- Helped develop and maintain song lyrics licensing platform used world-wide by music and media industries
- Improved song search and filtering performance from 5 minutes to 3 seconds for over 2 million requests using Solr
- Built a requests platform, using Java, Solr, and JavaScript, allowing clients to submit song licensing requests
- Created an assignments system in Java Spring to assign licensing requests to individual content editors

MAGNET FORENSICS | SOFTWARE DEVELOPER

Sept – Dec 2015

- Developed features for extracting data from Facebook profiles, Snapchat and text messages from the device image using C#
- Worked with concurrent code base 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
- Built a feature manager that allows client programmers to include/exclude features from the production binary using DLLs

TD CANADA TRUST | SOLUTIONS DEVELOPER

Jan – May 2015, Jan – May 2014

- Designed a project evaluation platform using Java Business Process Management workflow engine, Node.js and AngularJS
- Automated project management tools, which increased project work productivity by 60%
- Provided consultations to various lines of businesses on high-tier(\$5M - \$25M) projects

CANADIAN BLOOD SERVICES | SOFTWARE DEVELOPER

May – Sept 2013

- Developed an online event scheduling system, used nation-wide, using Java, JSF, XHTML, CSS, and MySQL
- Improved event search algorithm by 96.7% by optimizing data structures and algorithm time complexities
- Recommended and enforced UX design enhancements

SIDE PROJECTS

SECPI | CURRENT PROJECT

- A security platform and admin interface, built using Node.js, Webpack and React flux architecture
- Allows users to control a security system embedded on a Raspberry Pi Model 3
- Users can start/stop live security feed through Facebook messages

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 processes

GEORGE +

- A chrome extension for enhancing the abilities of a formal logic parser
- Introduced syntax highlighting, code folding, in-browser storage, proof auto-complete, and code snippet features

HELPR

- An Android app to help people find volunteer opportunities in any field throughout Canada
- Built a library to scrape volunteering job data from online directories

EDUCATION

UNIVERSITY OF WATERLOO | Candidate for Bachelor of Software Engineering

Expected Apr 2018