Barak Jacob

COMPUTER SCIENCE MAJOR · 3RD YEAR

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Skills

Languages & Frameworks Java, JavaScript, Git, Linux, C++*, SQL*, PHP*, C*, HTML*, CSS*, Bash Scripting*

Work Experience

Yahoo! Inc.   Sunnyvale, California
SOFTWARE DEVELOPER INTERN - YAHOO MAIL MIDDLE TIER TEAM   Jan 2017 - Aug 2017
- Designed and built a scalable security feature in the mail system to protect against DDoS attacks and system abuse
- Built a service to record and monitor all requests passing through the mail system using Java and Redis
- Researched and tested large scale HBase performance and used it to scale up an existing Yahoo Mail storage component
- Configured and maintained a High Availability HBase and HDFS cluster for the mail team that will be used in future projects
- Wrote tests using Mockito and JUnit, as well as monitor classes using JMX

Projects

Insight UBC   goo.gl/xJVVqm
RESTFUL WEB APPLICATION USING NODE.JS AND TYPESCRIPT
- Developed a web app that queries and parses multiple datasets to deliver information regarding courses, buildings, and classrooms in the university
- Implemented RESTful Web Services for client/server interaction using several endpoints
- Designed a UI using HTML, CSS and jQuery
- Integrated Google Maps API to display the location of buildings chosen by the user, and the scheduled courses offered in each one

Health Care System Website   goo.gl/EzadnQ
WEBSITE THAT SIMULATES THE CANADIAN HEALTH CARE SYSTEM USING SQL AND PHP
- Designed schema and tables to store patients, specialists, and family physicians' information using the Relational Model
- Integrated SQL into the website using PHP and Oracle
- Built the website's UI using HTML and CSS

Intereview   goo.gl/jtMnNp
COMPUTER SCIENCE INTERVIEW PREPARATION ANDROID APPLICATION
- Developed an Android app to help students prepare and review Computer Science material before job interviews as well as manage upcoming events and reminders
- Used JSON files to store review material and questions, making the content easily extractable by programmatically parsing those files
- Created the application's UI using XML and Android widgets

Memory Game   goo.gl/h85Cw3
CLASSIC MULTIPLAYER MEMORY GAME
- Developed a memory game that is played through a server using Java sockets
- Designed and implemented a simple protocol for server/client interaction
- Built the game's UI using Java Swing classes

Education

University of British Columbia   Vancouver, British Columbia
BACHELOR OF SCIENCE, COMPUTER SCIENCE   Sep 2015 - May 2019
- Major Percentage Average: 88.8% · Major GPA: 4.28/4.33
- Dean's Honour List (Dec 2016)