Ahnaf Hossain

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EDUCATION

UNIVERSITY OF TORONTO
Bachelors in Computer Science
Software Engineering Stream
Expected May 2019 | Toronto, ON

SKILLS

PROGRAMMING
Proficient
Python • JavaScript • Java • C
Bash • HTML • CSS
Experience
PHP • Node.js • MySQL • R • Assembly
Frameworks & Technologies:
Flask • BootStrap • Android • Git

INTERESTS

AREAS OF COMP. SCIENCE
Graph Theory
Big Data
Machine Learning
Security & Cryptography
Favorite Algorithm:
Ford-Fulkerson (Max-Flow Min-Cut)

LINKS

github .com/sakeebhossain
linkedin .com/in/sakeebhossain

ACHIEVEMENTS

2017 3rd Place at Microsoft Coding Challenge at UofToronto
2016 2nd Place overall at UTSC FinanceHacks
2015 Recognized for Best Design for course project (CSCB07)

EMPLOYMENT

CIBC | Application Developer
Electronic Financial Transactions Team | Jan 2017 – Apr 2017 | Toronto, ON

- Reduced time needed to generate hourly ATM uptime report by over 20% by optimizing SQL queries.
- Wrote a Bash script that runs queries looking for flagged transactions. Set up cron job to regularly email this report to production support team.
- Performed SOA testing for new services, querying a database and checking log files to ensure there was no irregular behavior.
- Debugged a variety of C scripts, and participated in code reviews.

MINISTRY OF GOVERNMENT SERVICES | Web Developer
Media Delivery Service Team | May 2016 – Aug 2016 | Toronto, ON

- Upgraded web player from Flash to JW Player to add support HTML5 video.
- Created web app in jQuery and PHP that loads a video with setting specified by the user (resolution, caption language, described audio, etc.). Parses XML files to gather sources for specified settings.
- Wrote automated tests using Jasmine JS framework to test websites for compliance to design and accessibility guidlines.
- Gained experience with Agile and SCRUM development methodologies.

PERSONAL PROJECTS

LEAPTEXT | Desktop Application

- Allow users to write and erase text with hand gestures by capturing movement with LeapMotion sensor, and then allowing the user to post the message to Facebook or Twitter with a swipe.
- Used Google Cloud Vision API to detect text in user drawings, as well as Facebook and Twitter APIs to publish posts. Used Node.js for backend.
- Winner of "The Hub Creative Hack" prize at HackTheValley.

FILLME.ORG | Web Application

- A tool that helps students fill their class schedules by filtering by criteria such as day of the week, time, discipline and year level.
- Wrote web scraper using Python's request and BeautifulSoup libraries.

MEERAR | Web Application

- A site that gives career advice by analyzing journal logs from users.
- Used Lexalytics sentiment analysis API to assign mood scores and handled backend with Flask and MySQL to store user data.
- Winner of Lexalytics API prize and CPS prize at McHacks 2017.

WIKIPEDIA GAME BOT | Web Crawler

- Uses Breadth First Search to find the shortest path from a given wiki article to the "Philosophy" wiki article by following hyperlinks.
- Designed selection algorithms to prevent infinite looping.