Sarim Zafar

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Skills

- Go, Ruby, JavaScript, C, C++, Java, Python, MATLAB
- Ruby on Rails, React-Redux, Enzyme, Scikit-learn, NodeJS, Angular, Mocha, .NET MVC
- Experience working in an agile environment with tools such as Git, BitBucket, JIRA, Jenkins and Phabricator

Professional Experience

Uber Technologies — Software Engineering Intern - Marketplace Control   Summer 2017

- Designed and developed a Go micro-service to automatically name arbitrary geographic clusters around the world
- Devised intelligent naming algorithms based upon area intersection, population and trips data
- Helped saved Uber Operations hundreds of hours otherwise spent on naming clusters

Think Research Corp. — Software Engineering Intern - Platform Team   Fall 2016

- Decomposed a single monolith Rails application into resilient microservices and improved performance by 55%
- Refactored application front-end in a test-driven manner using React-Redux and Enzyme
- Self started and managed a Machine Learning prototype for patient identification using Scikit-learn in Python

Deloitte Innovation Lab — Software Product Prototyper, Deloitte Communitech Space   Winter 2016

- Prototyped and developed a real-time web application using the MEAN stack, MySQL, WebSockets
- Built a personalized Slack bot using Botkit and Rails API to conduct automated employee surveys

BDO Solutions — Software Engineering Intern   Fall 2014 & Summer 2015

- Successfully developed a real-time error tracking system for a multi-page application using C# and JavaScript
- Created an MVC based .NET web application used for processing mining data using C#, SQL and jQuery

Projects

Patient Identification System – *Python, Scikit-learn*

- Designed and implemented a machine learning model to identify patients based on physical features
- Applied clustering and classification techniques to match the unidentified patient to an existing one

FatBot – Hack the North 2016 – *JavaScript ES6, FB Messenger Platform, Google Cloud NLP API*

- Built a Facebook Messenger Bot that automates the process of diet-tracking using Natural Language Processing
- Awarded the Best Hack by Bloomberg L.P and Runner-up for the Google Cloud API Prize out of 60 projects

RetrospectIQ – *Node/Express, Angular, Socket*

- Developed a multi-platform web application that assists agile coaches in better assessing team transitions
- Built the application using Node and maintained real-time data flow using Socket.IO and Angular.JS

Research and Teaching

Undergraduate Research Assistant - Video Processing Lab   University of Waterloo

- Working under Prof. Zhou Wang on video processing and encoding algorithms
- Responsible for building a web tool that rates the user's video viewing experience using complex algorithms

Teaching Assistant   University of Waterloo

- Tutored Data Structures and Algorithms, Calculus, and Circuits over the last 7 terms

Education

University of Waterloo - Bachelor of Applied Science in Mechatronics Engineering   Graduating 2018

- Fourth year student with minor in Cognitive Science   GPA 3.9