Pavithran
Pathmarajah

Software Engineering Student

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Competencies

- Object Oriented Analysis
- Interface Implementation
- Software Design
- Information Analysis
- Prototyping
- Testing Automation

Work Experience

Jibestream | Software Engineering Intern — May 2017 – Feb 2018

- Standardized the Android, iOS and Web SDKs, reducing technical support inquires and strain on multi-platform application developers
- Investigated and resolved complex technical issues for clients and developed effective solutions to their unique requirements while using minimal development hours
- Constructed a fully-automated quality assurance system with Node.js to test the data access and management layers as well as the SDKs to preemptively identify bugs reducing workload later in the software life cycle
- Communicated technical information to employees of varying technical competences in a succinct manner
- Extensive involvement in the development of a Microsoft Graph integration with the existing Android, iOS, and web platforms to increase versatility with Office 365

  SDK Examples: https://apps.jibestream.com/examples/

Projects & Experiences

Distributed Computing System | Yale University Development Competition — Nov 2016

- Devised a system using client-server architecture to use idle computing power to analyze large data sets
- Leveraged a PHP backend to partition data sets into processable blocks for client side analysis via JavaScript

Git: https://yhack.pavipath.com

ACM International Collegiate Programming Contest | Regionals — Oct 2016

- Learned the benefits of peer review, as programs have bugs, to minimize the likelihood of system critical issues

Weather Station Analyzer | Software Engineering Binding Theory to Practice — Feb 2016

- Developed a software using graphing algorithms to maintain accurate weather predictions while minimizing the number of required weather stations, utilizing an HTML frontend and a Ruby backend
- Created an ingestion engine capable of processing over 10GB of CSV weather station data into an easily accessible SqlLite3 database

  Git: https://weather.pavipath.com

Code To Win | Finalist — Nov 2015

- Placed in the 85th percentile nation wide, solving 4 of 5 algorithmic programming challenges in the finals.
- Realized the importance of time management and utilizing proven algorithms when on a tight deadline

Education

Bachelor of Software Engineering | McMaster University – Hamilton ON — Class of 2019

- Completed courses in Interfacing, Architecture, Requirements, Project Management, Testing and Logic