

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 inquiries and strain on multi-platform application developers
- Investigated complex technical issues for clients and engineered effective solutions to match their unique requirements and code base, to resolve issues using minimal development hours, maximizing productivity
- 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 experience in a clear, 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 SQLite3 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