

# Pavithran Pathmarajah

Aspiring Software Engineer

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## COMPETENCIES AND SKILLS

- Software design, architecture and implementation
- Requirement elicitation and analysis
- High-level cross disciplinary communication
- Quickly adapts to new programming languages

## EDUCATION

**B Eng. Software Engineering** | McMaster University – Hamilton ON

Graduating Class of 2019

- Additional Machine Learning Course, supervised and basic unsupervised models, combining the two for better models

## WORK EXPERIENCE

**Front-end Web Developer Intern** | CaseWare

Mar 2018 – Aug 2018

- Identified an optimization to reduce server requests by 50%, resulting in decreased bandwidth and system load
- Liaised between the User Experience(UX) and front-end development teams, ensuring capabilities and limitations to be mutually understood, resulting in an agile development environment with realistic project scoping and timelines
- Developed AngularJS components for the new Smart Engagements Platform Release, adding consolidation to the new web-port of CaseWare's keystone software product
- Consolidated an array of User Interface(UI) components into a new dynamic AngularJS component which reduced the overall development and testing time of UI related tasks; by having one component in place of 10 existing ones

**Full-Stack Software Engineering Intern** | Jibestream

May 2017 – Feb 2018

- Reconciled the Android, iOS, and Web SDKs, resulting in a reduction of technical support inquiries and strain on cross-platform application developers by ensuring a universal API is implemented across all the SDKs
- Prototyped 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, ultimately reducing workload later in the software life cycle
- Communicated technical info at cross functional meetings in a succinct manner at varying levels of technicality
- Extensive involvement in the development of a Microsoft Graph integration with the existing Android, iOS, and web platforms providing navigation to meeting rooms and in app room booking to increase versatility with Office 365  
SDK Examples: <https://apps.jibestream.com/examples/>

## PROJECTS & COMPETITIONS

**VP Development** | McMaster Software Engineering Society

Oct 2018 – Jun 2019

- Revamped an obsolete website, adding recommended campus clubs for students to further their development skills; developed a custom Node.js based website builder for better modifiability to facilitate easy maintenance by others
- Founded DevShare, a new initiative to excite and foster development via student knowledge sharing. Hosted a two day workshop for the creation of a web based messaging service which uses sockets on Node.js and Microsoft Azure with an HTML Bootstrap UI, a versatile framework the students can use to bring their ideas and prototypes to fruition  
Web: <http://ses.pavipath.com/> Web: <http://ds.pavipath.com/>

**First Place - Precision Agriculture System** | McMaster Cumulative Capstone Project

Sep 2018 – Apr 2019

- Developed a competitive low cost product prototype to optimize farm resource usage, aiming to maximize yields by delivering useful field statistics and resource recommendations leveraging machine learning; Collecting sensor data using python3 on Linux, processed on a Java Spring server; then presented via a responsive React.js Web app  
Web: <http://cap.pavipath.com/>

**Overall Winner** | McMaster Human Centered Design Competition

Oct 2018

**Regionals** | ACM International Collegiate Programming Competition

Oct 2016

