

Pavithran Pathmarajah

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Skills

- Languages** Node.js, React.js, Java
- DevOps** Bitbucket Pipeline Deployments, Setup AWS with Terraform
- Frameworks** Express with Node.js

Experience

Full-Stack Software Engineer

Toronto, ON

OLLON

Oct. 2019 - PRESENT

- Developed a parallelized cross system ETL process utilizing [Node.js](#) & [MySQL](#) expediting the transfer of 25000 patient EMR's, to the new client system which we developed, using a mutex system for data locking
- Architected a forms engine with [MySQL](#) and [Node.js](#) paired with a templated output system built in [React](#) for aggregated form results
- Successfully executed project by bridging communication gaps between developers and product owners, optimizing development, managing changing deadlines and by identifying and utilizing individuals' strengths within the team
- Optimized and expanding on the feature set of a React-Native application, by streamlining component usage and overall load on the PHP server
- Lead developer in creating [www.entuitive.com](#) on the [PHP](#) WordPress platform; reduced overall development time and project size by 20% by creating a reusable React like modularized framework and working with clients to set expectations and prioritize functionality
- Architected a CMS system featuring multi-user access levels and a [React Web App](#) using [Node.js Express](#) and [MySQL](#)
- Streamlined [Bash](#) & [MySQL](#) ETL scripts by as much as 30X reducing overall processing time by 30%, increasing API speed and reporting accuracy

Front-End Web Developer Intern

Toronto, ON

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 Smart Engagements Platform, adding consolidation to CaseWare's new 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

Toronto, ON

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 pre-emptively 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

Education

B Eng. Software Engineering

Hamilton, ON

McMASTER UNIVERSITY

Sep 2014 - Jul 2019

- Machine Learning Course: supervised and unsupervised models utilizing both types to create better models

PROJECTS & COMPETITIONS

First Place - Precision Agriculture System

Hamilton, ON

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 Web App](#)
WEB: [cap.pavipath.com](#)

Overall Winner | McMaster Human Centered Design Competition

Hamilton, ON

Regionals | ACM International Collegiate Programming Competition

Windsor, ON

