

MICHAEL PEET

MECHATRONICS ENGINEERING



sumobot1.github.io



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Sumobot1



mjpeet

SUMMARY OF QUALIFICATIONS

Programming Languages

- JavaScript, Python, Bash, Java, HTML/CSS, C, C++

Frameworks

- Frontend:** FlexboxGrid, EJS, AngularJS, Bootstrap, ReactJS
- Backend:** Node.js, MongoDB, ExpressJS, Django

Tools

- AutoDesk Inventor, AutoCAD, Siemens Solid Edge, Fritzing, Android Studio, XCode, Arduino, Git

Soft Skills

- Teamwork, leadership and communication skills
- Flexibility developed through work experience
- Able to learn quickly, creative, minimal supervision required

EDUCATION

University of Waterloo

Candidate for BAsC,
Mechatronics Engineering
(2015-2020)

Relevant Courses

Algorithms and Data Structures (99%),
Circuits, Digital Computation

INTERESTS

Programming, photography, swimming,
playing guitar, playing computer games,
spending time with friends and family,
travelling

EXPERIENCE

Software Developer, BuildDirect Design Center, Kitchener, ON (Sept-Dec 2016)

- Made multiple improvements to existing layout generation algorithms including **complete rewrite of upper cabinet placement logic**
- Wrote layout filtering module to implement Kitchen Design Standards, **resulting in a 33% decrease in layout generation time on average**
- Streamlined deployment workflow by integrating with Github Deployments API, and writing an Errbot plugin to display deployment status of all environments
- Participated in code reviews, helped test and debug issues across entire stack

Software Support Specialist, Videostream, Kitchener, ON (Jan – Apr 2016)

- Worked in a hybrid development/support role, taking user feedback and using it to implement requested features into Videostream app (**2M+ users**)
- Using Javascript, implemented a **Recent Downloads** feature into the app, currently used by over **5000** users daily
- Coded across **Android** (Java), **iOS** (Obj-C) and **Web** (Javascript) to implement a Netflix style **Continue Watching** feature
- Customer support lead for over **2 million users**. Resolved over **2200 support tickets** in multiple languages

Web Developer, Dashtask, Kitchener, ON (Jun - Aug, 2015)

- Developed web pages from design mock-ups using **HTML5/CSS3/JavaScript**

Hardware Assembly/Web Developer, Palette, Kitchener, ON (Jun – Jul, 2015)

- Participated in development and fabrication of premium product line

Senior Leader, Kitchener Summer Playgrounds, Kitchener, ON (Jul 2012 - Aug 2014)

- Planned and supervised activities with campers. Provided feedback to parents.

PROJECTS

Voluntel, (Nov 2015 – Present)

Technologies: Node.js, Socket.io, ExpressJS, React, EJS, MongoDB, PassportJS, Google Maps APIs

- Developed web application to connect volunteers to nearby volunteering opportunities
- Wrote user profile- login/authentication, file management, and posting creation
- Wrote newsfeed using Socket.io to update posting info, allowing users to apply to postings/track applicants in real time

DoStuff New Tab Page, (Sept-Oct 2015)

Technologies: HTML5/CSS3/JS, RequireJS, Chrome History/LocalStorage APIs

- Created Productivity Focused new tab page replacement
- Organized code into modules using **RequireJS** module loader
- Used Chrome localStorage and history APIs to show users recently visited sites, create a settings framework, and store information on a notepad

Computer Science Contest Algorithms, (Sept-Dec 2014)

- Implemented Breadth-First-Search, Recursion, 0/1 Knapsack Programming

Analogue Test/Programming Board, Personal Project, (July-August 2015)

Technologies: Microcontroller C, Makefile, Fritzing, Autodesk Inventor

- Colour brightness on RGB LEDs are controlled with potentiometers on board
- Circuit and board designed in Fritzing, PIC16F676 chip programmed in C

Television Remote, Personal Project (Sept-Dec 2014)

Technologies: Microcontroller C, Makefile, Fritzing

- Designed/Built/Programmed universal television remote around PIC12F683 microcontroller to transmit Infra-Red TV protocols, including SIRC, RC5, and some NEC codes.

More information on these and other projects can be found on my website!

AWARDS

- University of Waterloo President's Entrance Scholarship (2015)**
- Governor General's Academic Medal:** Highest Academic Average (2015)
- Melissa Maharaj Bursary:** High achievement in Technology and Music (2015)
- Computer Science and Computer Technology:** Highest Marks (2015)
- UW Canadian Computing Competition:** Top Score in School, Top 25% (2015)
- Swimming:** Placed 3rd in regional competition. (2015)
- Karate:** Achieved 1st Degree Black Belt (2014)