Matthew Livingstone

Developer

Versatile developer with over 10 years of experience including full-stack web development, mobile applications, micro-controllers and embedded systems, as well as desktop applications. Involved in the requirements analysis, architecture/design, development, quality assurance, implementation, release, and support of products.

Experience

2012 - Present

BESTECH / SHYFTinc
Developer

- Current lead for embedded (Dialog Semiconductor SoC), mobile (Flutter), and back-end web architecture for new product development
- Helped design, build, test, deploy, and support enhancements to NRG1-ECO Ventilation Control Software, including development of a new auto code-generation engine for soft PLCs
  - Encouraged migration to web-based UI, RESTful APIs, and Git
- Involved in onboarding and training new hires and summer students
- Built multiple hybrid mobile applications, using Cordova and Flutter
- SAP Business Objects experience (WebIntelligence and IDT)

2010 - 2012

Sunwire Inc
Developer

- One of the lead developers for their private branch exchange (PBX) system (Asterisk based)
  - Improved uptime and helped scale the system to support a call center with hundreds of employees
  - Improved login security and helped mitigate malicious access attempts
- Wrote firmware for PIC micro-controllers:
  - To interface with Toothpick Bluetooth chipsets to communicate with mobile devices
  - That was combined with other hardware, and used to detect Rapid Eye Movement (R.E.M.) sleep

2008 - Present

(Notable) Personal Projects

- Currently building a thermostat using an Arduino, ESP8266, and LCD
- Plugin-based Telegram bot running on NodeJS on a VPS
- Source server RCON application for Android

2008 - 2009

MIRARCO
Developer

- Helped develop mining data visualization application, ParaViewGeo
  - Developed new plugins, including a DXF reader
  - Improved existing plugins, with performance increases up to 50%
  - Setup and maintained build machines for testing

Personal Info

Email
mmrlivingstone@gmail.com

Website
mmrlivingstone.com

Primary Languages and Frameworks

C#
.NET
JavaScript
AngularJS
NodeJS
HTML / CSS

Other Languages

C (Embedded)
Python
PHP
Java (Android SDK)
SQL
Go

Other Technologies

TensorFlow
Git, GitHub, Gitlab
Subversion

Education

Laurentian University

Bachelor of Computer Science, with Honours (H.B.COSC.)