Avihay Baratz

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Summary: An experienced programmer and a "full stack" developer: from developing and building the hardware to deploying backend micro-services in containers in the cloud, and also frontend development (desktop/mobile/web). Mostly self taught and keeps up to date with the latest technologies. Has a natural skill for system analysis, so programming languages/tech stacks/code or electronic components or even wiring and pipes, do not matter much. A Linux desktop user and open software enthusiast.

Freelancer, multiple software and hardware development projects.
April 2016 – today
- Developing an IoT controller and applications for remote pool monitoring and control.
- Designed and built electrical cabinets for pools, some with integrated controllers.
- Developed software and micro-controller based hardware solutions for a water dispenser company.

Tools: C++/AVR, PlatformIO, HTML5, JavaScript/TypeScript, Node.JS, Svelte, Cordova, Python, Linux, php

Partner and Developer, ChanJit – a project/time management software startup. (formerly HiTech Masters)
January 2017 – March 2020
–In-charge of most of product development except for UI/UX.
- Developed the server and the client with C#, WCF, WPF, LINQ with Microsoft SQL database (MS-SQL), and sqlite.

Partner and Developer, HiTech Masters
June 2015 – December 2015
–Worked on a project called NetStep, involved with most of the sw dev aspects.
- Developed the client, web-service and website, using WPF, WCF and HTML5.

Partner and Developer, AdarNet (an SEO company)
August 2014 – May 2015
–In charge of technology choices, and expanding of our digital offerings beyond SEO to mobile applications.
- Wrote a Cordova application for Android based on the client's iOS app, preserving the look and feel of the original in under 8 days. It was good enough that it eventually replaced the original iOS app too.
- Wrote TLS protected full stack HTML5/Node.js applications, Deployed on a VPS in containers.

The "Center for Energy Savings" store
March 2014 – August 2014
– In charge of designing and manufacturing of electrical cabinets for pools.
- Significantly reduced the number of part buying trips by computerizing the design and inventory process. (SVG, QElectrotech)

Mobile Developer, HiTech Masters
December 2013 – March 2014
– In charge of maintaining and adding features to the Android version of the "KML" mobile app.
- Turned an existing StackOverflow "copy paste" application code into something maintainable, more flexible, and more reusable. (Java)
- Had enough time left to improve the back-end, the Windows-phone application, and to do some data-scraping for internal use, before the budget ended. (C#)

Open Source Developer, NAEV (online) & Yellow Leaf Software (online)
2011– 2013 **–** contributed bug fixes and added features to the UI.
- Got a mention in the development blog of NAEV. (C)
- Got a mention in the project credits of QMMP. (C++/QT)

Programming languages: C#, C++, C, JavaScript/TypeScript, Python, Java, PASCAL, asm and more

Familiarity with these technologies and platforms: GNU/Linux, Node.js, Docker, HTML5, Cordova, AVR, Vue.JS, Svelte, SVC (mostly GIT), Win32/64, QT, Networking, Unity3D, OpenGL, database (SQL/No-SQL)

Languages: English – Full professional proficiency. Hebrew – Native or bilingual proficiency. Japanese – Elementary proficiency