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I'm a Canadian citizen with 19 years of professional and high paced back-end experience within the online software industry, and with me, your imagination is the only limit. Started typing code at the age of 12, as have always loved the concept of turning nothing more than an idea into a reality. I'm quality and detail oriented, an innovative problem solver, comprehensive, well organized, and make both, an excellent team player and team leader.

Can handle jobs of any size, simple 30 minute tasks, large scale systems that require multi-year contracts, dozens of online operations spread across multiple servers, distributable software, or and anything else necessary. . Specialize in back-end development of larger scale systems that require proper and extensive design specifications, a high proficiency with clean and optimized database architecture , server administration and security, horizontal scaling across multiple server instances, comprehensive test suites, agile environment, et al.

For an idea of my capabilities, I'm founder and creator of both Apex at <https://apexpl.io/> a robust and modern open source software platform, and Envrin Group at <https://envrin.com/> a reputable bitcoin software operation. Apex is my baby which has even been sponsored by Digital Ocean, which I'm certain I will turn into a thriving open source initiative. To gain a better insight into my thought process, you may also view articles I've written at <https://apexpl.io/wiki/articles>

Regardless if you're an individual entrepreneur, SME, government agency, or an NGO, give me the chance to prove myself to you, and I promise you will be thrilled with my work ethic, innovative spirit, and ability to mobilize and get things done. I'm always very straight forward and honest, trustworthy, detail orientated, and passionate about both my life and work. Nothing beats a unbeatable level of ambition, which is what you would receive with me.

To help prove I'm straight forward and honest, full disclosure, I went blind four years ago. Aside from not being able to complete design tasks, this has not hindered my work ability in any way, so I ask you do not allow it to hinder your judgement of me in any fashion. I'm still a highly proficient back-end software engineer and server administrator who has managed to get Apex fully completed, and get it sponsored by Digital Ocean.

In conclusion, give me a chance, and I promise you won't regret it. I'm here to support you and your visions, and to help move that ball further down the field to realizing your end goals, dreams, and ambitions. Reach out to me, and let's enrich each other's lives.

Respectfully,  
Matt Dizak

# Skills

## Languages

- PHP 7.4 - Since 2006, highly proficient.
- Python, Perl (started in 1998), Qt, C/C++, Bash
- NodeJS, Java (novice)
- HTML, CSS, jQuery, Javascript

## Storage

- mySQL, PostgreSQL, SQLite. Proficient with SQL including advanced SQL queries, proper indexes, clean and efficient database schemas, triggers, views, stored procedures, cascading, replication, etc.)
- NoSQL mainly MongoDB.
- Redis, memcache, including redis-cluster

## Server Administration

- LINUX server administration - Highly proficient, prefer Ubuntu but can work with any distro, have been running solely Linux on local PC for over a decade).
- bash, awk, shell scripting, grep, et al
- haproxy, lua scripting, Nginx / OpenResty, et al. (high proficiency for complex, high availability services).
- Docker / docker-compose, Kubernetes
- Jenkins, CircleCI, TravisCI
- AWS, AWS CLI, Digital Ocean, Azure

## Messaging

- JSON, XML, SOAP, WSDL, YAML
- REST APIs and Web Sockets - both integration and development.
- RabbitMQ and horizontal scaling across a cluster of servers.

## Bitcoin / Blockchain

- 9 years experience developing extensive bitcoin operations including web non-wallets (custodial and non-custodial), traditional exchange, P2P exchange ala Localbitcoins, merchant payment gateway, escrow, lottery, and more.
- Highly proficient with the bitcoin protocol including creating, signing, and broadcasting raw transactions and all cryptographic algorithms.
- Communicating directly with the nodes on the P2P blockchain network.
- Wallet and operation security.

## Other

- git, SVN, Perforce
- TDD / PHPUnit
- Encryption / Cryptography - SHA, AES, RSA, PGP, Blowfish, etc.) etc.
- Good technical writer.

## Work Examples

- **Apex (PHP) - <https://apexpl.io/>**  
Powerful open source PHP based software platform, allowing for the development and maintenance of robust, secure, customized online solutions using it's modular structure. Clean, easy to learn and understand, and very much embraces a simple is good mantra while providing professional quality systems.  
  
For a technical demonstration to see how easy and smooth deployment is, please refer to the top section of the Docker manual page at: <https://apexpl.io/docs/docker>
- **Cluster - <https://github.com/apexpl/cluster>**  
Load balancer / router providing a simple yet intuitive way for developers to implement horizontal scaling across multiple server instances in their application via RabbitMQ or any message broker.
- **Technical Writer - MUO - <https://www.makeuseof.com/author/matt-dizak/>**  
Solid technical writer with the ability to describe technical aspects in a clear, concise and easy to understand way. See above link for article examples.
- **Envrin Secure Wallet (Bitcoin) - [https://envrin.com/secure\\_wallet](https://envrin.com/secure_wallet)**  
Fully featured and secure non-custodial web wallet solution for the bitcoin / crypto-currency industry with full support for BIP32, BIP39 and BIP44.
- **RevProxy - <https://envrin.com/revproxy>**  
Self hosted solution allowing administrator to easily manage a bulk number of proxies, and distribute / sell subscriptions to users based on bandwidth, concurrent threads, originating Ips, sticky IP, et al. Utilizes custom haproxy configuration along with lua scripting that connects into redis for custom authentication and request logging, round robin, et al.
- **Memium Back-End (PHP) - <https://memium.app/>**  
Mobile social networking platform that centers around memes and bitcoin SV. Was experienceing growing pains, so revamped the entire back-end from a NodeJS + MongoDB solution to a PHP + PostgreSQL solution with horizontal scaling providing virtually unlimited scalability while always retaining quick speeds. Developed out the new REST API which also included a fully functioning bitcoin wallet, while working closely with the mobile app developers.
- **Offline Signer (Python) - [https://github.com/envrin/offline\\_signer/](https://github.com/envrin/offline_signer/)**  
Small Python based GUI desktop application that allows for the offline signing of bitcoin transactions, allowing for greater security and to help prevent theft.
- **Custom IDE (Qt / C++)**  
Unfortunately, no longer have the code of this one, but developed a large custom IDE in Qt for the legacy software platform. Connected directly into

the development network, contained full package management, loads of different components and tools to aide in efficient development, was cross-platform for Windows, Mac and LINUX, and so on.

## Work Experience

- Nov 2019 - Present      **Memium (<https://memium.app/>)**
- Lead architect and developer responsible for development and implementation of a Bitcoin SV wallet, rehaul of the social network platform to PHP + PostgreSQL, while overssing two mobile app developers as they complete a rehaul of the mobile app. Also responsible for AWS server infrastructure and configuration.
- Feb 2017 - Present      Developed Apex at <https://apexpl.io/>, retrained myself, and picked up freelance contracts where I could.
- Mar 2008 - Sept 2016      • **Private Client / Envrin Group**
- Mainly worked for one individual private client. Met in Vancouver, started in online marketing / dating / adult industry related software solutions, and later branched into bitcoin for the last 6 years of our business relationship.
- He founded ~16 online operations within the bitcoin space including exchanges, marketplaces, coin mixes, escrow service, job boards, and so on. I was responsible for all back-end software, majority of front-end design, security, server and database administration, etc.
  - After suddenly going blind Sept 2016 I naturally was forced to take some time off work. Upon returning several months later after teaching myself how to be blind, he had vanished. No idea if dead, in jail, retired and went off the grid, who knows.
  - During this time period also ran <https://envrin.com/>, and picked up a good handful of lucrative clients within bitcoin.
  - Also launched a commercial software product called xMarkPro, which was a self-hosted WP management tool that allowed marketers to easily install and manage thousands of WP domains across multiple servers from one control panel. Did quite well, but was knocked out due to compeition who open sourced their software and charged for additional plugins.  
competition that charged for
- Nov 2006 - June 2008      **TakeOn Communications - <https://takeon.ca/>**
- VoiP provider, multi-step onboarding process, regional franchises each with its own sales / work teams, commissions, support help desk, etc.

- I was responsible for all back-end software development of their online portal, including server and database administration and management.
- Relationship ended due to poor management on their end, and they were unable to ever get anything actually launched, nothing to do with me.

**Apr 2005 - June 2010**     **Hans Huo - VHM Direct / Wildfire Marketing / Unemployment Advisor / Urban Connection / Others**

- Entrepreneurial client I met through Envex Developments, and worked with for years. Developed and maintained various online operations.
- Largest was VHM Direct, a loans application / officer management system during the days of NINJA loans. Integrated with Calyx Point, multi-layered sales / processing teams, loan applications would be automatically detected on the officer's computer upon being saved in Calyx Point, uploaded into the online system where all necessary parties would have access to the information. Loads of other intricate details involved, large loan officer base spanning 12 states and thousands of personnel.
- Various custom online marketing solutions and portals with high traffic and user bases.
- Another was Urban Connection, we purchased a large warehouse on Skir Row in Los Angeles to help the homeless (he was a staunch Christian). Needed online system to organize personnel, intakes, education and employment opportunities, medical services available, etc.
- He moved quick, and expected the same in return. Quick turn around, quality, and for everything to simply work and work right the first time around. Was great guy to work with.

**Nov 2000 - Oct 2005**     **Envex Developments - <https://envex.com/>**

- Founded <https://envex.com/> after two years of landscaping, which is / was a leader in MLM software.
- Helped develop and deploy probably thousands of online operations, had five full time employees at times, distributor program, partnerships with other development firms to funnel custom projects to so we could concentrate on the core software projects, etc.
- Fast moving, high stress, lucrative position. I was the owner, so in charge of everything from legal, payroll,

customer support, development, design, server, project management, etc.

- Sold in 2005 due to emotional distress caused by my marriage falling apart.

**April 1999 - Oct MD Landscaping - Edmonton, Alberta, Canada  
2000**

- Maintenance foreman, responsible for multiple parks, boulevards, and sets of show homes throughout the city.
- Helped construction crews when needed / maintenance work was complete.
- 100 hour weeks of hard labour with a crew - teaches you both a good work ethic and how to work with a team.
- Job ended due to winter, and is when I started Envex Developments instead of getting a warehouse job or similar.