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Canadian citizen with 20 years of high paced experience within the online software industry, Have been typing code since the age of 11, started my first amateur software firm at age 16, and first professional firm at age 20 which I sold five years later. Highly ambitious. innovative, down to earth, never allow a problem to get the better of me, and instead always continue pushing forward with research and testing until a well engineered and robust solution is implemented.

Quick learner by nature with the ability to grasp complex technical systems, which is reenforced due to being completely self taught with no formal post secondary education. Language agnostic allowing me to easily traverse between languages, although most fluent with PHP, Rust and Python. Experience with a multitude of other languages including Typescript, Node, Golang, Java, Perl, C++, Lua, among others.

Highly proficient with Linux server administration, SQL database architecture, complex queries, and distributed systems. Involved within crypto since 2010 with in-depth knowledge of the bitcoin, ethereum and monero protocols among otherss. Experience with machine learning, model creation and Hugging Face.

Creator of Apex at https://apexpl.io/, an open source PHP based framework designed to be a moder day replacement to Wordpress. Consists of a secure repository network, AI assisted development, built-in CI pipeline and staging environments, easy three stage syncing, one line deployment, ability for developers to earn passive income, and more. Designed with a simple is good mantra, offering an easy learning curve for others with full documentation and training program.

Full disclosure, I suddenly went blind 5 years ago, but please don't pass judgement on that aspect. Naturally, I can no longer do front-end design work but am still more than capable when it comes to back-end development and LINUX server administration. I simply like to be upfront and straight forward with everyone, hence this paragraph, but please don't worry about it.

Thank you for taking the time to read this cover letter. I would love the opportunity to become part of your team, and if given the chance, I'm confident I can prove myself to you as a valuable asset that's worth having around. Please reach out to me any time for further discussion.

Respectfully,
Matt Dizak

Online Profiles

I don't currently use any social media, as I was simply never really interested it from its inception, and it never really enticed me as I prefer long form conversation vs. Short phrases and memes.
Nonetheless, I can be found at the below links:

Website: https://apexpl.io/

Github (Apex framework): https://github.com/apexpl/

Github (personal – Rust, Python, Solidity): https://github.com/mdizak/

Youtube: https://youtube.com/@apexphp

Reddit: https://reddit.com/u/mdizak

Skills

Languages
- PHP 8.x – Since 2006, highly proficient.
- Rust (strong intermediate, will be fluent with little more time).
- Python, Perl, Qt, C/C++ (proficient)
- Java (intermediate)
- Golang, NodeJS, Typescript (novice, can easily teach myself)

Storage

- mySQL, PostgreSQl, SQLite. (Highly proficient including advanced SQL queries plus clean and well architected database schemas).
- NoSQL mainly MongoDB.
- Redis, memcache, LevelDB, RocksDB, et al

Server Administration

- Linux, all flavors concentrating on Ubuntu / Debian based. Highly proficient and have only used Linux even for local PCs past 15+ years.
- 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, Digital Ocean, including their CLI tools.

Messaging

- RESTAPIs and Web Sockets – both integration and development.
- RabbitMQ and horizontal scaling across a cluster of servers.

Bitcoin / Ethereum / Blockchain

- 10+ 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, ethereum and monero protocols including creating, signing, and broadcasting raw transactions.
- Communicating directly with the nodes on the P2P blockchain network.
- Wallet and operation security.
- Ethereum including Web3, NFTs (ERC721 and ERC1155), Solidity, Truffle, MetaMask, OpenSea integration, Polkadot, Substrate, et al.

Other

- Bioinformatics (fasta files, exonerate, aa / nt sequences, et al).
- git, SVN, Perforce
- TDD / phpUnit

Work xperience

Apex
Sep 2017 – Current
After developing multiple frameworks over the years that were only used for private clients, developed two iterations of Apex (https://apexpl.io/), an open sourced PHP based framework designed to be a modern day replacement to Wordpress. Embraces a simple is good mantra, making it easy to learn and develop with, while also boasting a large repository network ala Github providing superior project management, pipeline and deployment functionality.

Contractor
Sept 2016 – May 2023
After going blind and while developing Apex, contracted out and completed loads of different projects including but not limited to:

- Provided consultation to a Hong Kong based firm regarding the bitcoin network after they purchased a suite of bitcoin related software systems from my now defunct https://envrin.com/ site.

- Advanced bioinformatics algorithms in Rust while helping a biologist based in Ottawa develop a new data modeling pipeline for different forms of DNA analysis.

- Helped contribute to a moderl day replacement to Wireguard VPN solution in Rust.

- Large scale analyiscs system that scooped all data from OpenSea and provided real-time analytics on NFT market.

- NFTs and smart contracts in Solidity.

- Payment notification system in Typescript that spanned about 80 different crypto currencies.

- large REST API for new social media network that promotes truthful posts via people providing references to any post to prove / disprove it.

- Proxy service that heavily utilized haproxy, lua scripting and redis to offer clients loads of concurrent connections while enforcing strict rules.

- Many other projects, too many to count, and some I prefer not to disclose.

  ### Tech Lead for Serial Entrepreneur
  Jul 2007 – Sept 2016
  Met in Vancouver, and initally began developing dating sites, custom marketing solutions and other similar projects. In 2010 began breaking solely into bitcoin projects, and at the peak I was responsible for developing and maintaining 40+ bitoin related operations spanning all

vectors of the space and spanning a plethor of servers. During this time
also learned a great deal about online security as hackers in this space
are highly intelligent and brutal.

During this time period also picked up the occasional client and developed
several operations f my own. These included but not limited to, an
ecology based alt-coin with market, a large and custom eCommerce
operation, https://xmarkpro.com/ a self-hosted solution that allowed users
to deploy and manage 100s or even 1000s of Wordpress sites from one
central location, and so on.

Work with client temporarily halted after going blind Sept 2016. He then
unfortunately met an early demise Jun 2017. During their investigation,
the FBI estimated his net worth at $1 billion, much of which I was an
integral part in helping make.

- **Takeon Communications**
  Feb *2006 – Apr 2008*
  VOIP service based in Vancouver and developed out their back-end sales portal
  for them including public site CMS. This comprised of a complex multi-stage
  ordering process where each order had to be handled by multiple teams before
  completion from billing to hardware installation at the home. There was also
  a multi-level sales rep program and each member of the sales organization
  needed to be aware of the order as it progressed, and commission was given as
  necessary.

- *Hans Huo*
  Jun 2005 – Feb 2011
  Another highly intelligent and ambitious entrepreneur. Developed a wide
  array of online operations for him, notably VHM Direct which was a loans
  service that organized loans offers as necessary based on rank, integrated
  Calyx Point loan applications which were automatically picked up on
  computers of loan officers and shared through the network as necessary for
  efficient processing and approval. Another was Unemployment Advisor
  launched just after the financial crash of 2008 helping direct people to the
  resources they need, and another was Urban Connection a warehouse turned
  into sheler in Skid Row in Los Angeles.

- *Envex Developments (https://envex.com/)*
  Nov 1999 – Oct 2005
  Due to my teen years while trying to make money online, stumbled onto my
  technical gift as a solid developer. This resulsted in the creation of
  Envex, which is / was a leader in network marketing and affiliate marketing
  software. This was my first professional software firm, I had five full time
  and loyal employees, and learned loads about all aspects relating to running
  a solid software firm.