

# Tahsin Zulkarnine

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## Profile

- Proven enterprise senior technical consultant with 10 years of experience developing and managing scalable, high-performance Cloud and Web applications using PHP, Java, Apex, etc.
- Software architecture specialist with expertise in cloud, scientific and online marketing software.
- An outstanding problem solver with programming contest experience.

## Technical skills

### Languages, Software & Technologies

- Languages: Apex(Skilled), PHP (Skilled), Java, JS (Proficient), Visual Force, C++, .NET (Used)
- Frameworks/Library: Laravel (PHP), AngularJS (JS), Spring (Java), PHPRum (PHP), CodeIgniter (PHP), Boost(C++).
- Cloud Infrastructure: Salesforce, AWS - EC2, S3, CloudFront, RDS, Elastic Load Balancer, Cloudwatch
- Databases: MySQL, MSSQL, Salesforce.com Database, Sphinx.
- Software Systems: (CMS) Wordpress, Modx, Drupal, PageLime. (Repository) GIT, SVN, Mercurial. (CRM) Salesforce, vtiger, MS Dynamics, (VOIP) Asterisk, Elastix, A2Billing, (Issue) Redmine, JIRA.

## Experience

**Senior Technical Consultant**, *Groundswell Cloud Solutions, Vancouver, Canada* Feb '17 - Now

**Senior Software Engineer**, *International Cyber Crime Research Centre, Vancouver* Sep '15 – Jan '17

- Developed web application in Laravel (PHP MVC Framework) with AngularJS and AWS Infrastructure enabling efficient tracking of non-critical citizen incidents among relevant agencies, including interfaces for reporting issues, dispatching request to responsible agencies, delivering service and recording feedback. *Used: Laravel (PHP), AngularJS (JS), Amazon (AWS - EC2, S3, RDS, Elastic Load Balancer), MySQL, Git, Nginx, Vagrant, REST.*
- Developed Dark Crawler web application for supporting web crawling operations in Tor Network including interfaces for initiating crawls from seeding (onion) sites, managing queue and crawls, crawled domains, page statistics, content preview, and bulk keyword search for visualization of violent extremist content. *Used: ASP.NET, MSSQL, MySQL, Sphinx, SVN.*

**Senior Software Developer**, *BasicGov Systems Inc., Vancouver, BC, Canada* Jul '14 – Aug '15

- Designed BasicGov Cart and Payment processing framework in Apex by abstracting out generic functionalities including authentication, response handling, payable processing, etc. that enabled governments operating in the Salesforce Cloud to integrate with different Payment Gateways faster (ensuring PCI compliance). Implemented in:
  - Minnesota State (US Bank), City of Elgin, Illinois (Monexa Payment), Department of Public Safety Massachusetts (HP convenience pay services). *Used: Apex, Visual Force, Force Database.*
- Developed Letter engine in C#.NET using AWS infrastructure and Salesforce, enabling government administrators to generate letters using a large volume of cloud data. This engine made letter generation more stable and improved the ability to identify issues. *Used: ASP.NET, C#.NET, IIS, Apex, Visual Force, Salesforce and Amazon (AWS EC2, VPC, Elastic Load Balancer, EBS, Cloudwatch, IAM), Git, JIRA, Scrum, REST, SOAP.*

**Senior Web Application Developer**, *ActiveConversion, Calgary, Alberta, Canada* Apr '13 – Jun '14

- Developed bilingual web application PEO Portal using Spring (Java framework) integrated with various data sources (Relational, MS Dynamics, Bond Adapt, WordPress) that enabled candidates and company administrators of PEO Canada to transform data and perform job, benefit and account specific activities. *Used: Spring (Java), Maven, JSP, WordPress(PHP), ASP.NET, C#.NET, JQuery,*

*Axis, Hibernate, MSSQL, MySQL, MS Dynamics CRM, Bond, Mercurial, Redmine, Scrum, Tomcat, Apache, IIS, REST, SOAP.*

- Developed PHP plugin and .NET wrapper application that enabled synchronization of PEO Portal (Java app) with WordPress CMS and MS Dynamics, enabling administrators to change the content of different web interfaces of PEO Portal dynamically and operate bulletin boards.
- Acted as project manager by gathering requirement specifications, redesigning database (MySQL), enhancing functionality using CodeIgniter (PHP Framework), authoring technical briefs and testing AAISA applications, which serve as their internal training management system and job portal for the member agencies. *Used: CodeIgniter(PHP), Mysql, JQuery.*

**Web Application Developer, Commerx Corporation, Calgary, Alberta, Canada** Jul '12 – Mar '13

- Developed food hamper request interfaces using Rum (PHP MVC Framework) for Calgary Interfaith Food Bank, which efficiently served ~3M meals/year to needy individuals and families, utilizing database optimization, denormalization and caching using Memcached. *Used: PHP, Rum(PHP), MySQL, JQuery, Memcached, SVN, Apache, REST.*
- Developed Data Adapters (PDO & MSSQL) for Rum(PHP) Framework so that the database abstraction layer can handle transactions similar to all other database.

**Research Assistant, University of Lethbridge, Alberta, Canada** Jun '10 – Jun '12

**Network Quality Engineer, Orascom Telecom Holdings (Banglalink), Bangladesh** Aug '07 - Jun '10

**Independent Software Consultant, Bangladesh** Apr '07 – Aug '07

**Jr. Software Engineer, Brotecs Technology Ltd., Bangladesh** Sep '06 – Apr '07

## Education

**PhD. In Criminology (Cybercrime - Ongoing)** Sep 2015 - Now

*Simon Fraser University, British Columbia, Canada*

**Masters in Computer Science (Software Architecture)** Jun 2010 – Jun 2012

*University of Lethbridge, Alberta, Canada*

**Bachelors in Computer Science and Information Technology** Dec 2002 – Aug 2006

*Islamic University of Technology, Dhaka, Bangladesh*

## Certification

**Certified Salesforce Community Cloud Consultant** Mar 2018

**Certified Salesforce Administrator** Dec 2017

**Certified Salesforce Platform Developer 1** Jun 2017

## Leadership Experience

**Vice President Internal** Apr '12 – May '12

*University of Lethbridge Graduate Student Association (GSA), Alberta, Canada*

## Publications

- S. Hossain and A. Zulkarnine, ***“Design structure of scientific software - a case study”***, in Invest on Visualization-Proceedings of 13th International DSM Conference, held at MIT, Boston, USA.

## References

Available upon request