

Samuel Prashker

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Education

Bachelor of Computer Science – Computer and Internet Security *with Distinction*

Minor in Business – Information Systems

Carleton University, 2016

Bilingual
Fluent in English
Fluent in French

Work Experience

Software Development Engineer (Contract)

Canadian Radio-television and Telecommunications Commission

February 2017 – April 2017

| Produced a public-facing API that can facilitate the submission of reports of SMS text message spam and other types of reports from third party applications (e.g., smartphones, email service providers, WhatsApp, and other proprietary messaging systems).

| Modified the CRTC's Spam Reporting Centre with the functionality to consume data submitted to the newly implemented API, as well as corrected known performance related issues and deficiencies/defects within the system.

| Added end-to-end unit tests for 100% code coverage.

Python, Flask, SQLite, MySQL, Redis, REST API, Rate Limiting, API Development, Unit Tests

Software Development Engineer

Microsoft (MSD Tokyo)

September 2016 – December 2016

| Developed and released to Apple App Store a new and improved version of Office Lens iOS with many new features and bug fixes.

| Designed and implemented all new functionality for 'Immersive Reader' including a new and improved language detection algorithm as well as many UI improvements and functionality to navigate through read text.

| Manipulated big data using newly implemented telemetry data points and subsequently generating reports on that data.

| Enabled iPad support on Office Lens iOS under a universal codebase.

Objective-C, iOS, Telemetry and Reports, Image Recognition, OCR, Accessibility (VoiceOver), JavaScript, ScopeScript

Software Development Engineer (Contract)

Rock-Hopper

April 2016 – September 2016

| Implemented a comprehensive system-wide auditing system responsible for recording user actions with a tiered administrative permission model for filtering, querying and interacting with audit data.

PHP (CakePHP 1.3), Bash, Debian, MySQL, Cron, SQL Optimization

- | Added high level front-facing features and bug fixes to the complex codebase
- | Removed duplicate code and consolidated large portions of reusable code.
- | Refactored ORM models for a focus on SQL efficiency to reduce regressions introduced with new features to work around CakePHP 1.3 limitations.

Intelligence Systems Developer Cyber Security Intelligence Analyst (Co-op)

Canadian Radio-television and Telecommunications Commission

July 2015 – August 2016
April 2014 – January 2015

- | Architected and developed the Spam Reporting Centre, a web portal facilitating investigators from the CRTC, Office of the Privacy Commissioner and the Competition Bureau to pursue cases, enforcing the Canadian Anti-Spam Legislation.
- | Implemented analytical algorithms to decode, interpret and categorize spam messages, malware, robo-calls and other unsolicited telecommunications.
- | Communicated and implemented a secure communication protocol with Industry Canada allowing complaint data retrieval through a JSON API.
- | Streamlined development flow by migrating existing code base to a web based Git commit server (Git Stash) and deployed an issue tracker with automatic linkages to code (JIRA) emphasising quality through code reviews.
- | Strengthened knowledge working with HP ProCurve Switches, Fortinet Firewalls, NetApp Clouds as well as virtualized VMware environments within a multi-zone network emphasising covert operations and secure data storage.
- | Created custom Lucene QueryParser and Lucene Analyzers allowing for efficient and tailored full-text searching.

*PostgreSQL, MySQL, Python,
Django, Perl, Java, Bash,
TCP/IP, SSL, HTML, CSS,
JavaScript, Bootstrap, JSON,
Git, Lucene, Big Data, Eclipse,
PyCharm, Regex, Celery,
RabbitMQ, Natural Language
Processing, ESXi*

Computer Science Teaching Assistant – Mobile Applications Development Carleton University

September 2013 – April 2014

- | Assisted students during laboratory sessions with all Objective-C iOS and Java Android programming issues.
- | Solely responsible for the evaluation and marking of students' assignments and midterm examinations.

*iOS, Android, Threading, JSON,
XML, Widgets, Reactor Pattern,
AJAX, HTTP, P2P, Teaching,
Eclipse, Xcode*

Quality Assurance Tester

Transport Canada – Rail Safety Directorate

May 2013 – December 2013

- | Provided functional, integration, sanity and performance testing on Rail Safety's national scale, custom Enterprise Resource Planning (ERP) software application.

*Visual Studio, Quality
Assurance, Software Testing,
Unit Tests, Regression, VB.NET,
T-SQL, TFS, Stored Procedures*

| Performed thorough white-box and black-box software testing through the development of test cases to ensure functional points and business scenarios acted according to design specifications.

| Understood technical specifications and data models responsible for the backbone of the system.

| Worked closely with a team of developers testing in T-SQL and VB.NET, documenting all issues found in Team Foundations Server.

Freelance Developer

July 2006 – April 2013

| Developed a variety of scripts, websites, and files in order to match the project requirements.

| Built solutions from the ground up to achieve simple to moderate complex services to clients.

| Modified existing code in order to fix security holes, bugs, or implement feature requests.

| Achieved a success rate of 100% over the course of 75+ projects. Feedback provided averaged 10/10.

***PHP, MySQL, Batch, Bash,
Content Management Systems,
Linux, Windows***

Volunteer Experience

Assistant GIS Lab Manager

Carleton University

January 2006 – July 2014

| Installed, configured and maintained over 60 desktop computers' software and hardware, across 2 GIS computer laboratories.

| Developed Batch scripts deployed from central server to remotely and silently manage computers within the cluster, reducing maintenance window times.

***Batch, CLI, psexec, Windows
Server, Remote Execution,
GPO (Group Policy Objects)***

Technical Skills

Development Languages

Java, Python, C++, C, C#, VB.NET, Batch, Bash, PowerShell, mIRC Scripting Language, Ruby, Node.js, PHP, Perl, JavaScript, Scheme, Racket, Prolog, Objective-C, ScopeScript

Databases

MySQL, NoSQL, MongoDB, PostgreSQL, Microsoft SQL Server, T-SQL