Patrick Gryciuk

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Job Objective

A long-term, stable & salaried position at a software company

Technical Skills

- Strong programming knowledge of **C/C++, Python, C#, x86/ARM assembler, PHP,** and **Javascript**. Familiarity and Experience with **Java**. Able to quickly learn and use any language that follows common paradigms.

- Knowledge of best practices in software architecture and design. Experience with applying **DDD** to enterprise-level applications, including those that make use of **microservices**.

- Experience in creating robust applications using defensive programming and automated testing. Consistently use test-driven design to demonstrate the soundness of deliverables. Advocates for the use of agile testing pyramid (**Unit tests, Integration, BDDs, manual tests**).

- Familiarity in designing, building, and deploying reliable, scalable, maintainable, and cost-effective distributed systems. Experience in using **Docker, Kubernetes**. Familiar with **replication, sharding (partitioning), consistency, load-balancing, document stores**, etc.

- Effective knowledge of **Linux, mobile devices (Android, iOS), Windows API, Windows internals, .NET**

- Experience with performance testing and optimization: **distribution, profiling, debugging, platform-specific optimizations, threading, etc.**

- Strong familiarity with front-end technologies: **Javascript, CSS, Angular, JQuery, React, responsive designs**

- Experience with back-end design and technologies: **REST-based APIs, RPC-based APIs, document stores, RDBMS, distributed caching, etc.**

- Fully understand how to design, build and deploy CI pipelines. Familiar with **Jenkins, Artifactory, Bazel, MSBuild, Ninja-build, Make, etc.**

- Capable of writing thorough high and low-level design documents that follow best practices.

- Experience and knowledge of version control systems. Use **Git** daily. Familiarity with **Github**, and **Azure DevOps**.

- Strong knowledge of computer security. Including stack/heap overflows, web applications, shellcode, Linux and Windows internals, and security practices, etc.

- Familiarity and experience with most common software **design patterns**

- Ability to work closely with product management/owners to develop acceptance criteria and set realistic expectations on time of delivery. Able to work effectively in an **agile** environment.

Other Skills

- Able to plan, effectively work and deliver within time constraints.
- Public Speaking: Experience and ability to speak with passion and confidence to colleagues or potential clients at trade shows. Ability to defend technical proposals.
- Able to create and reinforce a positive work dynamic between colleagues.
- Excellent written communication skills; fluency in Polish.

Work Experience

Senior Software Engineer - SOTI Inc, Mississauga ON, 2021-Present

- Member of team "NG" (Next Generation) that was responsible for new versions of the flagship product. Responsible for designing and developing services/APIs for use by other teams.

- Owner of the distributed caching mechanism in the flagship product. Helped maintain and optimize newer versions. **Technologies/Concepts Used:** gRPC, C#, C++, Redis, DynamoDB, Rebus

- Performed gate-keeping duties for the architecture team. Reviewed all design proposals and documents before

escalating to architecture.

Software Engineer - SOTI Inc, Mississauga ON, 2020-2021

• Designed and developed a new version of Cloud Link Agent which allows cloud software to securely integrate with assets that are in an internal corporate network. Spearheaded migration of stack from WCF to gRPC

Technologies/Concepts Used: gRPC, C++, C#

• Built CI for new features

Technologies/Concepts Used: Jenkins, Cake, C#, GitHub, Artifactory

• Performed on-call duties and helped resolve critical issues for multiple fortune 1000 companies

• Part of SOTI tiger-team that helped develop a COVID tracking app during the start of the pandemic

Technologies/Concepts Used: AWS Lambda (API), Java (agent), geohashing, document store

• Participated in daily/weekly stand-ups, groomings, and retrospectives

• Performed regular code reviews for team members

Co-founder - Chief Technology Officer & Director – Toronto Flower Co, Toronto ON, 2013 – 2020

• Designed, implemented, and maintained technology stack for taking orders

Technologies/Concepts Used: Stateless Servers, Apache, Aurora SQL, PHP, Python, NGINX, load balancers, Redis, Angular/Javascript, Linux

• Developed in-house tools that facilitated order management via mobile phones for all employees

Technologies/Concepts Used: Android, iPhone, SQL, Java, HTML5, Angular/JS, Responsive Designs, QR Codes

• Designed, implemented, and maintained software to manage and route large scale deliveries during busy seasons

Technologies Used: Windows, C#, MySQL, routing is done via REST-based API provided by a third party

• Designed, implemented, and maintained software to manage inventory and shipments of commodities **Technologies Used:** Windows, C#, MySQL, QR Codes, Android

• Designed the deployment process to prevent downtime during software updates

Technologies/Concepts Used: Linux, Git, Python, load-balancers, rolling updates, unit tests, health checks

• Helped grow the company to consistent 7 figure yearly revenue, 8 figure lifetime sales.

QA Software Engineer – Mcafee Inc. / Intel Waterloo ON, Jan 2011- 2012

• Developed in-house automation tools to facilitate testing of their anti-virus

Technologies Used: C++, C#, Python, Windows Hooks, .NET, COM, Windows Services

• Designed the system used to test their antivirus across all supported platforms

Technologies Used: Python for deployment, Windows Services, VMWare/vSphere as the facilitator

• Developed units tests and integration tests

Junior Software Developer - SOTI Inc., Mississauga, ON, January 2008 - May 2008, Sept 2008 - Jan 2009

• Developed a management and security prototype for networked devices. (It would later grow into SOTI Connect)

• Participated in the development of an enterprise networking solution

• Automated testing procedures via AutomatedQA and Windows API

• Researched prospective technologies for incorporation into future product releases.

• Technologies used but not limited to C/C++, Python, Perl, Lua, VBScript, MSSQL, PostgreSQL, Visual Studio, TFS, Location Based Services (GPS, GIS), Windows (API, Mobile, CE), Linux, AutomatedQA, Microsoft Virtual Earth, and NetSNMP

Education

University of Waterloo, Waterloo, ON, September 2007-2011,2012

Completed 3 years of a Bachelor of Mathematics, Honours Computer Science