

Paramvir Singh

Software Engineering & Performance Engineering Professional

- More than **3 years of Industrial experience** providing Software Engineering, Cloud & Distributed Systems and Business Analysis expertise.
- Experienced in Product design and development, performance optimization, pioneering technologies, process designing and reengineering of scalable, multi-tier **distributed and mission-critical systems & applications**.
- Computer Science Graduate Student at UVic.

✉ paramvirsingh1994@gmail.com

📍 Victoria, Canada

in linkedin.com/in/paramvir3003

📞 +12508133568

🌐 paramvir1994.github.io

🔗 github.com/paramvir1994

WORK EXPERIENCE

Software Development Engineer Cuboh Inc

07/2019 – 10/2019 Victoria, Canada
Technologies - Python, Django, MySQL, Sqlite3, AWS EC2, SQS, Amazon S3, Lambda, DynamoDB, Docker, Selenium, Browsemobproxy, boto3, numpy, Heroku, Digital Ocean droplets

Achievements/Tasks

- **Re-engineered the architecture design** and implemented Event-driven architecture to scale the system.
- Developed Django **REST API and integrations** with more than 30 external services.
- Deployed the back-end modules using **Docker** on **AWS EC2** instances.
- Improved the support process by implementing the Continuous monitoring of the back-end services using **heartbeats**.
- Worked with a small, highly collaborative agile Scrum team.

Graduate Research Assistant University of Victoria

05/2019 – Present Victoria, Canada
Technologies - Java, Graph Mining, Spark, GraphX

Achievements/Tasks

- Currently working on the research of approximation algorithms for graph pattern mining in the **Social Network massive datasets**.
- Implemented various graph mining algorithms for Single Edge Streams, performed the Experimentation and Analysis and provided the comparison of the algorithms based on use-cases.

Graduate Teaching Assistant University of Victoria

09/2018 – Present Victoria, Canada

Achievements/Tasks

- Demonstrated knowledge and teaching skills as an instructor for various courses. Responsibilities include the preparation of study material, teaching, evaluation and project consultant.
- **Courses** - Software Architecture and Design, Scalable Software Systems, Artificial Intelligence, Computer Architecture, Practices in Computer Science

System Engineer R&D (Performance) Unisys Corporation

06/2016 – 07/2018 Bangalore, India
Technologies - C#, MS SQL Server, Java, MySQL, C, Algol, WPF, Jmeter, perfmon, nmon, IOMeter

Achievements/Tasks

- **Designed an algorithm** for an automatic resumption of the corrupted software stack in Clearpath Forward! Fabric Manager.
- Performed **Performance Engineering activities** on Mission Critical Systems and its applications, such as Performance Modelling, Performance Testing, Analyzing the results, Identifying the Bottlenecks, Reporting the information to the Stakeholders.
- Analyzed complex performance problems and **designed & suggested effective solutions**.
- Developed the Performance Test Suite for several Unisys Products that performed **Single Click evaluation of the system**, starting from the performance tests to the generation of the reports.
- Worked on several **High priority in-production issues** with the clients and helped them in resolving the issues.

SKILLS

PROGRAMMING - Java, Python, Android, C, C#

WEB - HTML/CSS, Javascript, Django, NodeJS, Typescript

TOOLS & AUTOMATION - Docker, Kubernetes, Selenium, Bash, Jmeter, Postman, GIT

CLOUD - AWS, Azure, Google Cloud Platform, Digital Ocean, Heroku

DATABASE & ORM - SQL, MongoDB, DynamoDB, JDBC, Hibernate, ADO.Net

PERFORMANCE - VMWare, KVM, HyperV, JMeter, Loadrunner, PerfMon, NMon, Wireshark, Google Stackdriver, AWS Cloudwatch, IOMeter

EDUCATION

Master of Science - Computer Science
University Of Victoria, Canada (09/2018 – Expected 12/2020)

Bachelor of Technology - Computer Science
Chandigarh Engineering College, India (07/2012 - 04/2016)

PERSONAL PROJECTS

Counting Triangle Patterns in Social Network Massive Graphs in Distributed Setting
– **Technologies** - Apache Spark, GraphX, Scala

Teammates - Online Peer Evaluation Solution (Opensource)
– **Technologies** - Java, Google cloud Platform

Performance Analysis & Comparison of Hypervisor and Container based Virtualization
– **Technologies** - Sysbench, Netperf, FileIO

Performance Engineering Suite for Unisys Products
– **Technologies** - C#, WPF, Java, Jmeter, Machine Learning

Naïve Bayes Text based Classification Library
– **Technologies** - Java

Credit Card Fraud Detection using Machine Learning
– **Technologies** - Python, Scikit-learn, Machine learning

ACHIEVEMENTS

- Unisys Gold Award for Excellent Performance
- Unisys Spot Award (**thrice**)