

Lily Wang

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EDUCATION

Bachelor of Applied Science and Engineering with Business Minor

Sept 2012-May 2017

University of Toronto, Department of **Electrical and Computer Engineering**

Relevant Courses:

- Computer Networks (TCP/IP network fundamentals)
- Algorithms and Data Structure (Searching and sorting techniques, MapReduce, dynamic programming)
- Computer Fundamentals (OOP using C++)

TECHNICAL QUALIFICATIONS

- 6+ years of industry experience in **Java/Python/C/C++**, excellent knowledge of **AWS, GCP**, Big Data and Software Development Life Cycle, self-starter with a strong sense of ownership
- Designed, developed and supported high volume, highly scalable, mission critical enterprise systems, leveraging Continuous Integration (**Jenkins/SonarQube/CircleCI**) and Continuous Delivery (**Docker**) tools
- Experienced developing software with version control(**GitHub/GitLab/Bitbucket**)
- Experienced with production deployment and configuration management tools (**Ansible/OpenShift**)

WORK EXPERIENCES

Senior/Lead Java Software Engineer, ATM Team (BMO) at UnisysTech

May 2023-July 2023

- Designed SQL schemas to capture key business insights based on data flow across 10 Java services
- Captured and transformed API data to obtain technical information on systems stability

Senior/Lead Java Software Engineer, Credit Card Balance Transfer (BMO) at UnisysTech

May 2022-May 2023

- Built relationship with external teams to merge new **Bill96** features for QA release (**NPM/NPX v6, NodeJS v14, Express, Angular, NgRx, HTML, SCSS/CSS**), led design, development, and testing efforts
- Developed **TypeScript** reusable **component** and services to be used across BMO online banking
- Leveraged **Jest/Jasmine** for unit tests, integrated with Java backend using mock **JSON** data for **REST API** calls
- Prepared demo of new features, presented biweekly, updated our progress to business stakeholders

Senior Java Software Engineer, Channel Services (BMO) at UnisysTech Consulting Inc.

Dec 2021-May 2022

- Remediated **Log4j** vulnerability from 50+ **Java SpringBoot** services, built **REST APIs** for retrieving **GitHub** version, **commit** (git-commit-id-plugin), developed service **health check** and **Swagger**
- Deployed **Java SpringBoot** services to **high available** OpenShift QA/PROD clusters, troubleshooted issues using **Postman**, communicated to teams and provided knowledge transfer in fast paced **Agile** environment

Intermediate Software Engineer, Platform Team at Plotly Technologies

Feb 2021-May 2021

- Coordinate with team to specify high level design diagram for self-service **Kubernetes-native** infrastructure
- Designed and developed internal cluster storage using MinIO to host private **Docker** registries
- Tested deployment after integration(**CircleCI**, ArgoCD) on AWS cloud **Elastic Kubernetes Service (EKS)**
- Defined use case diagrams for a **Golang** CLI that allowed quicker installation of **Dash Enterprise** product on customer cloud infrastructures (**AWS/GCP/Azure**)

Senior Developer, Credit Underwriting Team at Capital One

June 2019-Feb 2021

- Designed, configured, deployed cross-regional **AWS** infrastructure (**Route53, ELB, WAF, EC2, IAM, subnets, VPCs**, and vault secrets) to enable high resiliency for Costco Warehouse **React** application
- Utilized **Python, NodeJS**, to clean up sensitive **Avro** records in **AWS S3 bucket/ MongoDB** and **Snowflake**
- Automated credit policy updates (**Excel, Drools, Bash, Python**) for 5 business products, tested using **BDD/Cucumber/ATDD, E2E** using **WireMocks**, built **SQL** flyway scripts to upgrade **PostgresDB** tables

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WORK EXPERIENCES CONTINUED

Software Developer, Recording Data Manager Team at Genesys

Sept 2018-Apr 2019

- Engaged in SDLC of a scalable **Java** microservice project deployed on **AWS** in a team of 6 using **agile** methodology. Features include **REST** API designed with **Spring Boot** and configurable Hystrix settings
- Worked in fast paced sprint environment to deliver features using Test Driven Development techniques
- Leveraged **IaaS** framework, created **AWS** infrastructure using **CloudFormation** templates, managed resources like **DynamoDB**, **EC2**, **AutoScaling**, **CloudWatch** and **SNS** using **AWS console** and **awscli**

Site Reliability/DevOps Engineer, Engineering Support Team at Genesys

Jan 2018-Aug 2018

- Troubleshoot production synthetic call issues to facilitate 14 tenants' migration plan from **Python** to **Node.js**, performed RCA across 6 software services, suggested customized resolutions for each tenant
- Designed 5 scripts to enable monthly purge of media files for 60+ customers in production, analyzed YAML files for 108 RWS production nodes using **Ansible** and **Python**, categorized and reorganized **Chef** Roles across 15+ regions to prevent configuration drift and **PagerDuty** incidents
- Responsible for monthly Blue/Green upgrades and verification process on 15+ production regions

Software Analyst, Recording Web Service (RWS) Team at Genesys

July 2017-Dec 2017

- Proposed and implemented configurable secure socket design for RWS to integrate with 3 media servers
- Redesigned legacy code to support JUnit tests, improved **SonarQube** code coverage to 100%
- Automated 29 regression test on **Jenkins CI**, orchestrated cross-functional resources to resolve 33+ infrastructure issues, greatly enhanced stability of delivery pipeline from 70% to 95%

HACKATHONS

Overbond Hackathon: <https://github.com/huanning/Overbond>

June 2016

- Implemented maximum clique algorithm in **Python** to analyze 30MB network data in team of 2
- Optimized algorithm to execute under 3 seconds

NASA Space Apps Challenge: <https://open.nasa.gov/innovation-space/kid-moon/>

April 2016

- Created an educational web app for kids to interact and visualize 3 Apollo landing sites in team of 8
- Won Global Award for Most Inspirational project and placed top 5 out of 1278 participating teams

WearHacks Toronto: <https://github.com/huanning/DriveWare>

March 2016

- Created an Android app that alert truck drivers when they are drowsy, developed algorithm in team of 6
- Utilized MUSE headband to extract brain wave signals, retrieved and categorized time-series data from API

VOLUNTEER EXPERIENCES

Volunteer for Non Profit Organizations

June 2021-Dec 2021

- Trained, planned, prepared, and led two 9 day trips in Algonquin for kids with special needs
- Captured, visualized, and analyzed biomonitoring data using **Matlab** and presented report to stakeholders
- Received grant to host art and sustainability workshops for Agincourt/Scarborough community