



TECHNICAL SKILLS

LANGUAGES	EXPERIENCE
Python	4+ yrs.
C++	3 yrs.
Java	6 mo.
Javascript	0.5 yrs.
HTML/CSS	2 yrs.
GIT/HG/SVN/TFS	1 yr.
SQL	4 mo.
Jenkins	4 mo.
JSON/XML/VXML	4 mo.
VHDL	6 mo.
VBA	1 yr.
Bash	3 yrs.

Web Libraries/Frameworks

Django • Spring Boot • Selenium •
BeautifulSoup4 • smtpLib • SikuliX •
Flask

Automation, NLU, Machine Learning

SciKit Learn • NLTK • OpenPyXL • PIL
• Blue Prism • AWS Lex • DialogFlow

Graphics

Pygame • Kivy • PyProcessing •
Matplotlib

Testing

Junit • Mockito • GTest

Other

Jira • Jira API (JQL) • Docker

Hardware

PC • Mac • Arduino • Raspberry Pi •
PICAXE • Onion Omega and other
embedded Linux chips

Microsoft

Word • Excel • Powerpoint • Visual
Studio • Sharepoint • Visio •
OneNote • Outlook • Power BI

SUMMARY OF QUALIFICATIONS

- Recognized leadership skills within various projects, positions, and volunteering events
- Comprehensive experience within Agile, CI/CD, and Client-Facing Environments
- Solid self-management in ramp-up/learning situations; Skilled at transitioning into unfamiliar stacks
- Strong academic performance; Ranked top 15% of 1st year Computer Engineering stream
- Positive and goal oriented; set large objectives and break them down to learn new concepts very quickly and effectively

WORK EXPERIENCE

- 2018 **Software Developer – Genesys Telecommunications Laboratories, Inc** [Markham ON]
- Developed core features within Genesys' microservice-based cloud platform
 - Created rest API solutions to improve health and status monitoring for several microservices
 - Built full-sized CI/CD pipelines for new microservices, with features including unit tests, integration tests, deployment tests, and clean-up procedures
 - Designed and scripted a Jira Status Report email generated and sent to management weekly
 - Formulated graphs and tables based on ticket and developer data pulled from Jira
 - Heavily decreased time needed for sprint planning and resource allocation
 - Produced JWT security feature for faster, more secure data transfer within the cloud
- 2018 **Software Developer – Tax Transformation Technology, KPMG LLP** [Toronto ON]
- Led the design, plan, & development of KPMG LAYNE – an NLP solution that analyzes lengthy, free form lease agreements
 - Created an image recognition module, used by multiple RPA processes in the stack, to increase error trapping consistency (by 40%) and improve unsupervised performance
 - Took on several automation projects, including but not limited to:
 - Admin bots (sending/receiving emails, saving documents, planning appointments)
 - Streamlining heavily manual tax return processes/cycles (web apps → database → calculation/processing → Client document generation)
- 2015/19 **Private Piano Teacher** [Toronto ON]

NOTABLE ACHIEVEMENTS/PROJECTS

- 2018 Coded my **personal website** from scratch in JavaScript without the use of any libraries
- 2018 Developed a **blogging web-app in Django** with user creation/registration, login functionality, and a one-time link generator for password resets (handmade encryption and decryption algorithms)
- 2018 Built a **sentence emotion analyzer using python machine learning** and NLP libraries. Successfully achieved an accuracy of 88.5% correct emotion detection across various series of tests
- 2018 Architected and developed source code for an **arcade claw machine** in VHDL using finite-state machine logic on an FPGA board
- 2017 Created a **100'000-digit number calculator** in C++
- 2017 Ontario Semi-finalists – ECOO programming contest (team of four)

EDUCATION

- 2017/19 Candidate for Bachelor of Applied Science, Computer Engineering Co-op – University of Waterloo
- 2017/18 High school diploma – French Bilingual Honours Graduate – York Mills Collegiate Institute

INTERESTS/HOBBIES/INVOLVEMENT

- **Volunteering**
Royal Conservatory of Music [2014/19]
Swimming Instructor (WS Aquatics) [2017]
- **Music** - Piano performance (RCM), guitar, trumpet, djembe, music composition via software (Instagram: @lionharmonix)
- **Languages** – English, French, and Arabic
- **Sports** – Rock Climbing, soccer, basketball, swimming, longboarding, biking, skiing
- **Other** – Nature hikes, meditation, healthy eating/cooking