Tyler Nychka

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SKILLS

Front-end:
- *Swift*
- *JavaScript*
- *HTML5* /CSS

Back-end:
- *Java*
- *Python*

Applications:
- *C/C++*
- *Scala*

Scripting:
- *Assembly*
- *Bash*

Frameworks and Libraries:
- Springboot
- Maven
- Bootstrap
- JQuery/JQuery-UI

Tools and Technology:
- Git Version Control
- Stormpath
- Auth0
- Heroku
- IntelliJ
- RESTful
- Agile development
- Pair-Programming
- MicroServices
- Continuous deployment

EDUCATION & AWARDS

Honours Software Engineering, University of Waterloo
2015 – 2020, WATERLOO
- Bachelor of Software Engineering (3.9 GPA: A)
- Recipient, University of Waterloo President's Scholarship of Distinction for admission average over 95%

Twin Lakes Secondary School
2010 – 2015, ORILLIA
- Recipient, Top Male Academic Average (98%) and Top Math Student
- Recipient, Y's Men's Service Club of Orillia Scholarship for exemplary leadership and academic skills

WORK EXPERIENCE

Helpful – Full Stack Agile Engineering
Swift, Java, Python, Springboot, Maven **2016, TORONTO**
- Developed front-end iOS and back-end Java Springboot software using the full agile development process
- Created bash scripts and test suites to aid in the development and deployment of continuous backend integration; decreased deployment time by up to a week
- Optimized critical server endpoints by refactoring code to reduce response time by up to 200ms
- Cooperated with product managers, designers, and engineers to produce weekly iOS application builds
- Implemented and maintained microservice integrations which increased security and maintainability of back-end services

PROJECTS

Push-the-Button-Backend:
Java, Springboot, Maven **2016, TORONTO**
- Created Springboot based Java server designed to quickly authenticate and deliver game data to users
- Developed and maintained server using including: Heroku, Stormpath, Maven, and Springboot
- Implemented user authentication, allowing user data to be handled securely with Stormpath API
- Optimized server endpoints for maximum user security and rapid response time

Genetic Soldiers: Genetic Algorithm:
C++ **2016, TORONTO**
- An experiment in genetic algorithms designed to find a pattern to consistently defeat a basic AI opponent
- Produced algorithm that learns to defeat an opponent in a minimal number of generations
- Built and created fully modular code that can be easily swapped for testing and development purposes

Focus Time: Productivity Website tnychka.github.io:
JavaScript, Bootstrap, JQuery **2016, ORILLIA**
- Designed a front-end website for timed work sessions based on the Pomodoro Technique
- Made use of the CSS Bootstrap framework to layout a visually appealing and functional design
- Created a clean UI with the JavaScript libraries JQuery and JQuery-UI

User Analytics Scripting:
Python, Bash **2016, TORONTO**
- Planned, designed, and built a script designed to analyze user activity regarding app usage
- Used Mixpanel and Google Analytics APIs to collect data into one datasheet for analysis
- Scripted the analysis of data into charts for feature planning and design
- Increased user retention and feature production with use of the data produced by this script