

Nickolas Leipold

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<https://github.com/nickLeipold>

Technical Ability

- Complete understanding of programming in C from creating file I/O and linked list libraries and a multitude of in class assignments
 - Completed projects that incorporated arrays and objects on the screen as well as encryption
 - Deep understanding of PHP and the multiple ways it can be utilized from creating and maintaining web applications
 - Able to analyze data stored in MYSQL and PostgreSQL databases as well as insertions and joins
 - In depth understanding of functional programming in Scala
 - Able to work in an Agile and Waterfall project method
 - Experienced understanding of JavaScript from implementing client-side actions and user interfaces
 - Great capabilities of operating in a logical order
 - Data recording using Google firebase to record access to a security door with live updates
 - Sorting and manipulation of data in Assembly and effective use of Java and C
 - Comfortable coding Java
 - Able to comprehend complex concepts and complete them independently or in group settings
 - Able to explain information in many ways to help people understand a concept from helping colleagues in class and orientation volunteer experience
 - An understanding of algorithm analysis with Big O notation
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Education

Bachelor of Computing, Honors Major in Computer Science (co-op) Marketing Minor

University of Guelph, Guelph, Ontario

2015 – Present

- Completed Software Systems Development and Integration with a 77 which has been regarded as the hardest course in the Degree
 - Completed a core class Data Structures with a 90 final mark
 - Completed first year courses achieving Dean's Honour list for both semesters
 - Recipient of an entrance scholarship for academic performance
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Work Experience

Software Engineering Intern

Sortable, Kitchener, Ontario

April – August 2018

- Created new UI features for in house analytics software
- Worked with the functional programming language Scala for backend server
- Created unit tests for additional features and parameters
- System tested new parameters and verified correctness
- Created new API endpoints for UI and back-end interfacing
- Migrated legacy data storage methods to use of API
- Monitored Server health through Grafana and helped diagnose issues

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Adknown Inc., Guelph, Ontario

April 2017 - January 2018

- Worked with a variety of Amazon Web Services such as EC2, Athena, RDS, S3, Code Deploy, Kinesis Firehose, Route 53, Cloud Watch, Lambda and API Gateway
- Ran test environments and sites on EC2 services as well as creating AMIs and auto scaling groups to keep services running
- Registered domains with Route 53
- Set up RDS instances to control aspects in sites
- Stored images and traffic information with S3 for large data analysis with Athena
- Aggregated data to different S3 locations and email addresses using Kinesis Firehose
- Used Code Deploy to keep server code synchronized with Git repositories
- Worked with the marketing team to develop tools to make their job more efficient and function within the company standards and methods
- Reviewed and debugged large products and converted code to newer standards and fix existing bugs
- Set up environments to test tools that were being created and modified before launch to live services
- Worked with data aggregation for big data analysis

Paint and Sandblasting Safety and Special Projects,

Facca Inc., Ruscom, Ontario

April - August 2016

- Developed safety training cards for Employees which streamline the ministry of labour's inspection processes, resulting in fewer work stoppages for lack of Certifications
- Developed an automatic door lock using NFC communication with an android phone and an NFC enabled Arduino, all self-managed Using google firebase as a backend, allowing door access to be monitored and controlled remotely
- Created an application to display job numbers and descriptions to employees to help streamline work processes

Extracurricular Activities and Volunteering

MLH Hackathon, University of Guelph, Ontario

December 2017

- With a group of friends, we created an online multiplayer chess game
- I was tasked with UI design and integration with the API backend
- Also tasked with helping design the API endpoints

Orientation Volunteer Team Leader, University of Guelph, Guelph, Ontario

September 2016

- Taught in-roads sections to incoming students that enlightened them on the information they may need and circumstances they may encounter in their time as a University of Guelph student

Volunteer youth, St. Paul's Lutheran Church, Leamington, Ontario

2005-present

- Participated in two CLAY youth gatherings and participated in initiatives that support rights to drinking water and helped clean public areas

References Available Upon Request