

**University of Waterloo**  
**Co-operative Work Terms**

**Nicholaus Suprpto**  
**20871083**  
**3A Data Science, Honours Co-operative Program**

<b>Work Term</b>	<b>Employer</b>	<b>Evaluation</b>
Sep - Dec 2021	Paramount Commerce Divisional Office Toronto Ontario Canada Integrations Analyst	EXCELLENT
May - Aug 2022	FarmLink Marketing Solutions Head Office Winnipeg Manitoba Canada Jr. Software Developer	EXCELLENT
Jan - Apr 2023	State Street Corporation Global Technology Services Toronto Ontario Canada Data Analyst Intern	

**Planned Future Work Term(s)**

Jan - Apr 2023

Sep - Dec 2023

May - Aug 2024

Sep - Dec 2024

**Disclaimer:** This evaluation does not constitute an employment endorsement or recommendation. Employer evaluations of student contributions and achievements during the work term are conducted as part of the University of Waterloo's Co-operative (Co-op) Education model. Like academic grades, overall evaluations are part of the assessment of a student's progress in the co-op portion of their degree studies. These assessments are completed using criteria set out by the University, not the employer, and do not reflect the employer's criteria or assessment metrics.

# Nicholaus Suprpto

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## Education

### University of Waterloo

2020–2025

Candidate for Bachelor of Computer Science, Data Science Major - 3.94 GPA

Relevant Coursework: Object-Oriented Programming, Data Structures and Data Management, Data Analysis

## Skills

**Languages:** C++, C, Python, Javascript, Java, SQL, R, HTML/CSS

**Tech Stack:** Git, Docker, Pandas, TensorFlow, Vue, Jest, Django, PostgreSQL, MySQL, Firebase

## Experience

### FarmLink Marketing Solutions

Winnipeg, MB–Remote

Software Developer Intern

May 2022 - Aug 2022

- Developed user interfaces using Vuetify in client-facing web application while practicing pair programming
- Effectively refactored front-end components into generic components to reduce code complexity
- Configured Vite and front-end code splitting that reduces load times by 26% and reduces bundle size by 72%
- Improved front-end test coverage to 80% by creating unit tests using Jest
- Optimized Django ORM queries of 3 main features to reduce API response times to a standardized response time
- Integrated Github Actions and Microsoft Teams to provide automatic updates of deployments

### Paramount Commerce

Toronto, ON–Remote

Merchant Integrations Analyst Intern

Sept 2021 - Dec 2021

- Certified merchant integrations in the staging environment to meet compliance requirements
- Utilized SQL queries to gather transaction data and extract information for merchant integrations
- Documented request parameter constraints and errors for all internal products to save client time
- Researched and recommended mobile emulator tools to simplify the current automated and live testing practices
- Assisted the company-wide Salesforce migration from Jira and created new Reports and Dashboards in Salesforce

## Projects

### Spotify Data Visualization 📊

- Designed rich data visualization to model personal Spotify streaming habits with Matplotlib and Seaborn
- Collected historical data and audio analysis data from Spotify API and worked on data cleaning and ensured data consistency using Pandas and Numpy

### Binary Image Classifier 📊

- Built binary image classification model based on EfficientNetB3 to classify images into two distinct groups during week-long hackathon event, CxC Summit hosted by UW CSC and UW DSC
- Increased dataset by data augmentation and fine-tuned the model with manual tuning to reach 93% accuracy

### WLP4 Compiler 📊

- Built a compiler for WLP4, a strict subset of the C++ language, that produces ARM code of the given file with some optimization such as constant folding.
- Implemented Simplified Maximal Munch scanning algorithm and Bottom Up parsing algorithm

## Achievements

CxC Summit ML Edition - Aipaca Challenge 1st Place

2022

CxC Summit ML Edition - Watonomous Challenge 1st Place

2022

Oracle Certified Associate, Java SE 8 Programmer

2021

University of Waterloo Merit Scholarship

2021

# UNIVERSITY OF WATERLOO

## UNOFFICIAL GRADE REPORT

Nicholaus Suprpto  
20871083

3A Data Science, Honours Co-operative Program

### Winter 2023

COOP	3	Co-operative Work Term
Term Average:	N/A	Decision:

### Fall 2022

CS	240	Data Structures & Data Mgmt
CS	348	Intro Database Management
SCI	206	Physics of How Things Work
STAT	341	Computational Stats & Analysis
MATH	239	Intro Combinatorics
SCI	238	Intro Astronomy
Term Average:	N/A	Decision:

### Spring 2022

COOP	2	Co-operative Work Term	CR
PD	10	Professional Resp in Computing	CR
PD	11	Technical Writing	CR
Term Average:	N/A	Decision:	

### Winter 2022

CS	241	Foundations of Sequential Prog	94
CS	245	Logic and Computation	86
CS	251	Computer Organization & Design	88
STAT	231	Statistics	100
ENGL	210E	Genres of Tech Communication	86
Term Average:	90.8	Decision:	Excellent Standing

### Fall 2021

COOP	1	Co-operative Work Term	CR
PD	11	Technical Writing	NCR
Term Average:	N/A	Decision:	

### Spring 2021

PD	1	Career Fundamentals	CR
AFM	231	Business Law	86
CS	246	Object-Oriented Software Devel	94
MATH	237	Calculus 3 for Honours Math	92
STAT	230	Probability	90
MATH	235	Linear Algebra 2 (Hon Math)	87
Term Average:	89.8	Decision:	Excellent Standing

### Winter 2021

AFM	102	Intro to Managerial Acct	97
CS	136	Elem Alg Design & Data Abstrac	91
SPCOM	223	Public Speaking	85
MATH	136	Linear Algebra 1 (Hon Math)	92
MATH	138	Calculus 2 for Honours Math	87
Term Average:	90.4	Decision:	Excellent Standing

### Fall 2020

MTHL	199	Special Topics	CR
		First year readiness	
MATH	137	Calculus 1 for Honours Math	85
SEQ	4	Co-op Sequence 4	
AFM	101	Intro to Financial Accounting	91
CS	135	Designing Functional Programs	95

MATH	135	Algebra for Hons Mathematics	90
ENGL	109	Intro to Academic Writing	90
Term Average:	90.2	Decision:	Excellent standing