EDUCATION

M.Sc. Computer Science

August 2020 University of Guelph Stream: Human Computer Interaction Average: 92%

Bachelor of Computing

June 2016 University of Guelph Minor: Economics Certification: Business Administration Average: 84%

TECHNICAL SKILLS >

Programming & Databases

JS	(ES6)	Python3	3	HP)	$\left[C\right]$	[R]
	Shell	YAML XML			Node	e.js
N	1ySQL	SQL Postgre		Mo	ongo	DB

Web Development

HTML5	C	SS3	S	ASS	React
WordPress	3	Jeky		11ty	SEO

Frameworks, Methodologies & Tools

Agile ITIL		6Sigma		Dev-Ops		
[AODA	RES	ST	MERN	1	LAMP
	Git	AWS		Office 365 Admin		
		Figma		Docke	r	Netlify

CERTIFICATIONS Q

Six Sigma: White Belt
ITIL: IT Service Management
Driver's License (Class C)
CPR (Class C)
Ski Instructor & Coach (Level 1)
ORCKA Moving water (Level 1)

ORCKA Flat water (Level 2)

Email mail@nicdurish.ca or visit nicdurish.ca for more information.

PROFILE

An accomplished Web Developer and Analyst with 10+ years of professional and academic experience in designing, developing, testing, deploying, auditing, and maintaining user-centric websites and web-based applications. Equipped with a record of success in identifying and supporting technological needs of companies through innovative solutions.

EXPERIENCE

Web and Cloud Architecture Consultant & Founder

Durish Digital Peterborough, ON

Jan 2024 - Present

- Founded Durish Digital to meet the growing demand for custom web applications, websites, and support for existing cloud architectures, and production environments.
- Specialize in creating custom websites and web applications, as well as assisting companies in identifying and resolving bugs in existing production environments.
- Successfully overhauled IT systems and developed a new website for Waterloo-based company Northern Mechatronics Inc.
- Engaged by **Eddy Solutions** to address and resolve significant flaws in their AWS production environment managing over 25,000 deployed LoRaWAN devices.
- Completed various small website and application development contracts for organizations, including the **Quinte Paddling Club**.

Director of Software & Co-Founder

Veranda Digital Inc.

Toronto, ON

Aug 2021 - Present

- Cofounded with 3 other founders and helped to acquire seed funding for the development of a smart lockbox to be place on a porch to receive grocery deliveries. Leverages low-power wide-area networking to allow remote monitoring and control for owners and their delivery drivers from their mobile devices.
- Led the software team and external consultants towards the design and development
 of software including firmware for custom circuit boards in C, data structures for
 storage built with PostgreSQL, site scrapers for integrated services with Puppeteer,
 system backend and API built with Serverless and Node.js hosted on AWS, public
 facing website built with 11ty, and mobile and web app built with React.
- Helped in leading the creation and application of our US utility patent

Web Analyst

Feb 2021 - Aug 2021

City of Guelph

Guelph, ON

- Responsible for the overall analysis, architecture, documentation, and continuous improvement of the City of Guelph's websites and applications.
- Worked with cross-functional teams and business units to create new web services, integrate, and improve existing web services, and make recommendations for customer-driven web solutions built primarily on WordPress.
- Project Manager for Single Sign On, and Online Payment Solution integrations with current services. Involved in other projects including distributed authoring models, accessibility review, and unified citizen portal.

UX Design Consultant

Lunarstorm Technologies Inc.

Guelph, ON

Jan 2021 – Apr 2021

- Contracted to lead the requirements gathering, client relations, and ultimately design the UX and UI of a news aggregating application named CreatorNews for the large media firm Media Central Corp (NOW Magazine, The Georgia Strait).
- Iterated through **Adobe XD** design prototypes and wireframes to find a suitable set of functionality and **responsive** interfaces to achieve the client's business objectives.
- Aided in the selection of a technical stack which would allow Lunarstorm developers to efficiently build the requested progressive web application.

Junior Webmaster City of Guelph

Jan 2020 - Jan 2021

Guelph, ON

• Responsible for building, testing, analyzing, and maintaining City of Guelph websites. Hired specifically to lead the revisions of over 15 City websites to be **AODA compliance** prior to 2021. This deadline was met by; working with authors to revise content, developing a customized Plugin to fix backend errors, and building processes for ongoing maintenance.

• Redeveloped the City of Guelph **WordPress** Theme by translating all design patterns and components, building new page templates, and converting to **SASS**. This resulted in a 40% reduction in the **PHP** codebase and a 35% increase in **performance**

Research Intern · RightMesh

Mitacs Accelerate

Jan 2019 - Jan 2020

Ottawa, ON

- Assisted in the successful application and selected as the first intern for the \$2.13M Mitacs Accelerate Grant funding collaborative research between the University of Guelph and Left.io on the RightMesh project
- Designed and led the Rigolet Internet Assessment Initiative which used distributed microcomputers to regularly measure and analyze broadband speeds from households in Rigolet, Nunatsiavut.
- Aided in development of an Android App and Web App using React for wireless content sharing in a Mobile Ad Hoc Network.

Webapp & Android Developer

University of Guelph

Sept 2017 - Dec 2018

Guelph. ON

- Led and helped train the development team of eNuk, an Inuit-led health and environmental monitoring application for the community of Rigolet, Nunatsiavut.
- Gathered specifications, developed prototypes, built an API, liaised with an external development team, and ultimately developed a beta version of the eNuk application for Android, and browsers

Teaching Assistant · CIS*3750

University of Guelph

Sept 2017-Dec 2018

Guelph, ON

- Held the position of Graduate Teaching Assistant for 3 semesters to Dr. Dan Gillis and Dana Rea for CIS*3750 Systems Analysis and Design in Application; a fourth-year computing course involving students in community-engaged scholarships.
- Performed duties that delivered direct services to students such as coordinating instructional efforts, aiding in marking student assignments or tests and enforcing administration policies governing students, both on campus and online.

Website Developer Memorial University

Jan 2018 - April 2018

St. Johns, NF

• Contracted to design and develop a user-friendly, and **responsive** website for the eNuk project. Built with the WordPress CMS, a tailor-made theme, and documentation to support web authors.

Foreman Treeline Reforestation

May - July 2015 - 2017

Englehart, ON

- Held 3 summer positions as Foreman, with my last year acting as Head Foreman. Managing tree contracts as large as 10.5 million trees, with over 60 employees under the Ministry of Natural Resources.
- Personally responsible for a crew of upwards of 16 planters, their training, production, tree quality, wellbeing, and safety.
 Planter production was maximized through balancing volatile factors and management required operating a variety of machineries such as chainsaws, generators, ATVs, skidders, tractors, trucks, and busses.

Lift Operator

Mount Washington Alpine Resort

Jan 2017 - May 2017

Comox Valley, BC

- · Opened, closed, operated, and maintained the T-bar, carpet and chair lifts on Mount Washington, Vancouver Island, BC.
- Welcomed and interacted with customers whilst performing tasks such as helping patrons safely mount/dismount the lifts, validating tickets, assisting patrol, clearing snow and operating lift controls.

Teaching & Research Assistant · ICON Jan 2016 - May 2016

University of Guelph

Guelph, ON

- Held the position of Undergraduate Research Assistant to Dr. Dan Gillis & Dr. Shoshanah Jacobs for the offering of "ICON Ideas Congress", a fourth-year class in which students from various disciplines collaborate to solve real-world problems.
- Aided in facilitating knowledge translation as well as interpersonal, communication and leadership skills among students. Helped coordinate the 2015 Feeding 9 billion Challenge, marked student assignments, and enforced administrative policies

Teaching Assistant · CIS*2050

University of Guelph

Jan - May 2015 & 2016

Guelph, ON

- · Held the position of teaching assistant for 2 semesters to Dr. David Chiu's course "CIS*2050 Computers and Society".
- Performed duties that delivered direct services to students and helped accelerate their education. Coordinate instructional efforts, aided in marking student assignments or tests and enforced administration policies governing students.

Silviculturist Treeline Reforestation

May - July 2013 & 2014

Englehart, ON

• Worked long hours in arduous conditions in the Temiskaming and Abitibi Forests of Northern Ontario. Part of a team that was responsible for transplanting over 20 million trees over two seasons, I personally planted over 300,000 trees. Trees must be planted in optimal microsites, with proper spacing, density, pod depth and soil.

Landscape Labourer

Yard Creations Inc.

Calgary, AB

• Designed, executed, and transformed private yards with a small team. Coordinated the arrangement of existing and proposed land features and structures. Operated heavy machinery to design features such as driveways, fences, decks, and walkways.

Bar & Hostel Manager

The Magic Sponge

Kampot, Cambodia

• Responsible for checking-in guests, managing staff members as well as managing legal and financial matters. Worked as Bartender and Barista preparing drinks for patrons and managing bar operations.

Camp Counsellor

Oct 2011 - July 2012

Oct 2011 - July 2012

YMCA Sudbury

June 2011 - August 2012

Sudbury, ON

• Responsible for the wellbeing, safety, happiness, and hygiene of 10 children bi-weekly. Taught skills such as canoeing, sailing, windsurfing, rock-climbing, outdoor living, respect, responsibility, honesty, and cooperation.

Swim Instructor & Lifeguard

YMCA Belleville

Oct 2011 - December 2012

Belleville, ON

• Prepared and executed lessons to teach children; safety, core-values, and swimming skills. Supervised the pool area, prevented accidents, helped patrons, motivated swimmers, and performed first-aid.

★ HONOURS & AWARDS

University of Guelph SoCS Yount Alumnus Award of Honours

2019

Recipient of the annual recognition of a Computer Science graduate of the last 10 years who has distinguished him/herself in the profession, the community, the university and/or a related field.

School of Computer Science Teaching Assistant Award of Excellence

2019

Recipient of the Teaching Assistant Award of Excellence in recognition of "outstanding contributions in improving the undergraduate learning environment".

Guelph Chamber of Commerce Awards of Excellence: Young Innovator Award

2018

On June 28, 2018, the Guelph Chamber of Commerce joined leaders in business, government and community to celebrate the achievements of outstanding local organizations and individuals at the Awards of Excellence Gala. This year I was presented the first Young Innovator Award, presented by CEPS Dean, Mary Wells, which "recognizes an individual under the age of 25 who has demonstrated innovative leadership in their chosen field of profession or study" and who "is dedicated to solving an important and current challenge".

CPHAZ Symposium Student Presentation Competition · 3rd Place

2018

Won 3rd place in the Student Presentation Competition at the Centre for Public Health and Zoonoses Symposium.

Computer Science Games · Social Computing Competition · 12th Place

2015

Represented the University of Guelph in the Web and Database Design Competition, placing 19th and 4th out of 28 universities.

Scotiabank EcoLiving Award · Top 3

2015

This award recognizes a business leader who has launched, or has an established a product or service, that can offer significant residential energy reduction solutions and offers a positive environmental benefit. The ElecTrickle team came in the Top 3 nationally in the Student Category, winning funding and an opportunity to meet with business moguls such as Arlene Dickinson

Net Zero Hackathon · 1st Place & Human Factor Award

2015

Students from different disciplines were brought together to work in teams developing a solution that will change occupant behaviour to reduce the amount of energy used in the home. Our team of four students competed against 8 others teams. We produced an Android Application to serve as the middleman between energy companies and consumers.

Elevator Project: Guelph's Community Building Launchpad · Community Vote

2015

The aim of The Elevator Project is to unite people with fantastic ideas to improve the quality of life in Guelph with the resources such as funding, materials, advice and expertise that will bring these ideas to life. "Sustain-a-Bin" was in the top 15, winning funding and mentorships.

Annual Summit of Universities Fighting World Hunger's Pitch for Progress · 1st Place

2015

Won 1st and \$2000 at the CBASE for my social and environmental focussed project, hosted at the University of Guelph.

Planter's Choice Award · Treeline Reforestation

2015

Voted Management Member of the Year after working as a foreman for Treeline Reforestation.

Feeding 9 Billion Challenge · 1st Place

2014

Students were challenged to develop a solution to reduce Food-Waste and Food-Insecurity on campus and in the community. Our team of 4 developed an autonomous composting bin which collected data helps the user quantify their waste.

Top Ski Racer & Jonathon Swallow Awards - Batawa Ski Team

2007 & 2009

Received the Top K2 Racer Awards and the Jonathon Swallow Award for my successes on the Batawa Alpine Racing Team.

★ SCHOLARSHIPS & GRANTS

Guelph Graduate Tuition Scholarship · \$18,000.00

2017 - 2019

The Graduate Tuition Scholarship is a fully paid scholarship for Graduate Studies at the University of Guelph. The Scholarship is awarded to a single student per year per college, nominated by their college to recruit top students within their field.

Northern Scientific Training Program Grant · \$3,604.45

2018 & 2019

Sponsored by Polar Knowledge Canada (POLAR) to foster science and technology in Canada's North.

Physical Science & Engineering Education Research Centre Travel Grant · \$1000.00

2018

Awarded to fund my attendance and presentation at the People, Places and Public Engagement Conference.

School of Computer Science Travel Grant · \$500.00

2018

The SoCS Travel grant is awarded to student for conferences relating to the field of computer science.

Elevator Project: Guelph's Community Launchpad · \$1,500.00

2015

Sustain-a-Bin was within the top 15 most interesting projects, voted by the community of Guelph.

VOLUNTEER EXPERIENCE

Food Vending Support

Hillside Festival

2014 - 2019

Guelph, ON

The Hillside Festival is an annual three-day, four-stage summer festival occurring in Guelph, Ontario hosting musicians, spoken word artists, workshops and more. The Hillside Festival occurs in late July on Guelph Lake Island.

Public Relations and Outreach

Ontario Universities Fair

2014 - 2019

Toronto, ON

The Ontario Universities' Fair is an annual event which promotes publicly owned universities in the Canadian province of Ontario. Met with potential students and parents to talk about the Computer Science program at the University of Guelph.

Computer Science Educator 2018 - 2019

Northern Lights Academy

Rigolet, NF

Visited the Northern Lights Academy and the Summer Science Program to provide lessons and demonstrations on Computer Science topics such as; "Building a website with Flask" and "Programming your own FlappyBirds on MicroBits".

Event Volunteer

Pint of Science

Guelph, ON

Aided in hosting 12 different scientist to speak whilst enjoying a pint. The event stretched across 6 venues over three days.

Master of Ceremonies

School of Computer Science Orientation Week Outreach Event

The 2018 School of Computer Science Orientation Week involved several events to welcome first-year students into the SoCS. Events included public talks from students and professors, team-building events such as Trivia, and an outdoor BBQ.

Mentor

2019

Improve Life Hack-a-thon & Feeding 9 Billion Challenge

2016 - 2017

Guelph, ON

Guelph, ON

Helped students with ideation, problem solving, communication, teamwork, and product development.

Co-coordinator

College Royal: Roboticon

Co-coordinated Roboticon in 2016, where 11 local Secondary Schools had their robots compete on an obstacle course.

Coordinator

Guelph Coding Community

2015 - 2016

The Guelph Coding Community is a biweekly tech talk run through the University of Guelph in which students meet to share Computer Science stories, projects, problems, and presentations.

Secretary 2015 - 2016

Society of Computer and Information Science

Guelph, ON

Society of Computing and Information Science (SOCIS) is a student organization for the University of Guelph's School of Computer Science which represents SoCS students enrolled in computer science, software engineering, the general computing degree, and all minors. SOCIS also represent the students in the SoCS council meetings, which decides on important topics like curriculum, and in the College of Engineering and Physical Science Student Council (CEPSSC) meetings.

PATENTS

Portable Smart Secure Container and Interconnected Management Software for Delivered Assets US Patent Application No. 63/394,089

Pending

PUBLICATIONS

A Case Study in the Design of a Community-Based Internet Assessment Initiative in Rigolet, Null The University of Guelph Atrium · Thesis Durish, N	natsiavut 2020
The CIS*3750 Systems Analysis & Design in Applications Student Manual Gillis, D., & Durish, N.	2019
The eNuk Environmental and Health Monitoring Program Polar Knowledge: Inaugural Edition · Article Kipp, A., Cunsolo, A., Gillis, D., Sawatzky, A., Cook, O., Durish N., Shiwak I., Flowers C., Rigolet Inuit Community Government & Wood M.	2018
☐ PRESENTATIONS	
ORAL PRESENTATIONS	
How Computer Scientists Navigate Trust City of Guelph, IT Department Social Durish, N.	Guelph, ON 2021
Building Foundational Skills & Community Engaged Software Design Spring IT Conference · Invited Keynote Durish, N. & Gillis, D.	Guelph, ON 2019
Supporting Community-Based Monitoring With Technology In The Circumpolar North. Labrador Research Forum Durish, N. & Gillis, D.	Goose Bay, NF 2019
Bridging the Digital Divide with Mobile Ad Hoc Networks in the Circumpolar North. Western Student Research Conference Asch, M., Rourke, K., Seymour, F., Durish, N., Flowers, C., Wood, M., Gillis, D. & Ernst, J.	London, ON 2018
Using Mesh Technology to Support Climate Change Monitoring. Indigenous Mapping Conference Rourke, K., Durish, N., & Gillis, D.	Montreal, QB 2018
Supporting Community-Based Monitoring in the Circumpolar North. ArcticNet Durish, N. & Gillis, D.	Ottawa, ON 2018
Bridging the Digital Divide and Improving Community-Based Monitoring Programs in the People, Places and Public Engagement Durish, N., Seymour, F., Rourke, K., Raturi, S., Hughes, B., Harper S., Cunsolo A., Flowers F., Shiwak I., Wood M., Gillis D. & Ernst, J.	St, Johns, NL 2018
Community Engaged Computer Science: Lessons Learned in the Pursuit of Social Justice. g0v-zero Summit · Invited Presentation Durish, N. & Gillis, D.	Taipei, Taiwan 2018
Potential Health Impacts of the Digital Divide. Centre for Public Health and Zoonoses Symposium Durish, N., Seymour, P., Cook, O., Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government., Cunsolo, A. & Gillis, D.	Guelph, ON 2018
Bridging the Digital Divide in the Circumpolar North Spring IT Conference · Invited Keynote Durish, N. & Gillis, D.	Guelph, ON 2018
Design: The Good, The Bad and The Ugly Spring Academic Open House Durish, N. & Gillis, D.	Guelph, ON 2018
A Strategic Analysis of Iterative Pareto-Nash Misaligned Games: How Computer Guelph Coding Community Durish, N.	Guelph, ON 2016
Student Innovations: Sustain-a-Bin and BioCharzard Compost Council of Canada; Compost Congress Durish, N. & Smith, C.	Guelph, ON 2016

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2018

Interview: eNuk and MeshNets in Nunatsiavut

MORK2HOP2					
Indigenous I	Process: Identifying Problems RightMesh Can Solve I & II. Mapping Conference ish, N., & Gillis, D.	Montreal, QB 2018			
Developing an Inuit-led Community Health and Environment Monitoring System using MANETS. Community-Based Environmental Monitoring Workshop Durish, N. & Gillis, D.					
POSTER PRESE	ENTATIONS				
Bridging t	he Digital Divide to Support Community-based Monitoring in the Circumpola	r North. Ottawa, ON 2018			
	s, D., Seymour, F., Rourke, K., Asch, M., Raturi, S., Hughes, B., Flowers, C., Shiwak, I., Wood, M. & Ernst, J.				
CEPS Under	g the Digital Divide in Canada. graduate Poster Session urish, N., & Gillis, D.	Guelph, ON 2018			
Developin CEPS Under	ng an Instant Messaging Platform Beyond the Digital Divide. graduate Poster Session aturi, S., Durish, N., Shiwak, I., Flowers, C., Ernst J., Gillis D.	Guelph, ON 2018			
Centre for P	Inity-led Approach to Contextualize Gamification. ublic Health and Zoonoses Symposium mour, P., Cook, O., *Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government, Ernst J., Cunsolo	Guelph, ON 2017			
•	· · · · · · · · · · · · · · · · · · ·	•			
Centre for P	ng Remote Northern Communities with Offline Mobile Applications. ublic Health and Zoonoses Symposium aturi, S., Durish, N., Cook, O., Sawatzky, A., Shiwak I., Flowers C., Rigolet Inuit Government, Harper S., Cunsolo A., Gil	Guelph, ON 2017			
-	g broadband speeds between Indigenous and Non-Indigenous communities				
	ate Poster Session	2017			
The eNuk ArcticNet	Health and Environmental Monitoring System.	Quebec-City, QB 2017			
Durish, N., Gilli	s, D., Cook, O., Cunsolo, A., Sawatzky, A., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government, and Harp	er, SL.			
ArcticNet	g Mesh Networks to Design Systems that Connect Remote Northern Commu	2017			
	Durish, N., Cook, O., Cunsolo, A., Harper, SL., Sawatzky, A., Shiwak, I., Flowers, C., Rigolet Inuit Government, and Erns	st, J. & Gillis, D.			
ArcticNet	the Connectivity of Rigolet Using the Inuit-led eNuk App and Wireless	Quebec-City, QB 2017			
-	our, PF., Durish, N., Cook, O., Cunsolo, A., Sawatzky, A., Flowers, C., Shiwak, I., Rigolet Inuit Community Government	t, Harper, SL. & Gillis, D. Quebec-City, QB			
Supporting Wildlife Stewardship and Conservation through a Digital Platform for ArcticNet					
Andrachuk, M.	. Cunsolo, A., Sawatzky, A., Snook, J., Gillis, D., Durish, N., Shiwak, I., Flowers, C., the Rigolet Inuit Community Govern	nment & Harper, SL.			
⊞ MEDIA	LINKS				
2023	The School of Computer Science celebrates its current and past graduates today!	UoG News			
2023	School of Computer Science Honours and Awards	UoG News			
2018	Maple Ridge tech company announces brain gain	Maple Ridge News			
2018	U of G Computer Scientists Part of \$2.13 Million Project to Improve Data Sharing	UOG News			
2018	The School of Computer Science and Left to Collaborate on \$2.13 Million Project to Improve	First Mile			
2018	Look who won abusiness award!	Guelph Today			
2018	SoCS Grad Student Receives Young Innovator Award	SoCS News			
2018	·	Guelph Chamber of Commerce			
2018		Guelph Chamber of Commerce			
2018	RightMesh - #TeamThursday; Interview with Dan Gillis & Nic Durish	, Rightmesh			
2018	Computer Science Students Receive PSEER Travel & Workshop Award	SOCS News			
2018	Computing Students Receive NSTP Award	SoCS News			

CBC North

2018	SoCS Grad Student A Finalist For The Guelph Chamber Of Commerce Award for Excellence	SoCS News
2018	Computer Science Meets Public Health: 2018 CPHAZ Symposium	Climate Change & Global Health
2018	CPHAZ Symposium focuses on One Health	OVC News
2018	Meet Our Students	University of Guelph
2018	CS Professor Working to Improve Life in the Circumpolar North	SoCS News
2018	A Meshnet Will Help This Inuit Town Monitor the Effects of Climate Change	Motherboard · Vice
2017	School of Computer Science Graduate Awards Announced	SoCS News
2017	Success at Pitch for Progress	SoCS News
2015	Smart Compost Bin Puts a Dollar Value on Food Waste	UoG News
2015	Winning projects in Guelph's Elevator Project span art, culture, music and food	Guelph Mercury
2015	Scotiabank Celebrates Earth Day by Announcing the Finalists for the 2015 Scotiabank Ecoliving.	TMX Money
2015	Corunna resident part of team tackling composting	Sarnia Observer
2015	Smart compost bin translates food waste into dollars	AgInnovations Ontario
2015	Students challenged to cut food waste	Guelph Mercury
2014	Food Hack 14	SoCS News
2009	Leader in Training: More Than Just Leadership	YMCA Alumni Newsletter