Aksh Ravishankar
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+1 (403)-400-2652
LinkedIn
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As a new grad with a strong interest in improving industry processes using technology, I would like to be considered for a Software Engineer position with your company. I am an undergraduate student at Carleton University and have recently earned a Bachelor of Engineering in Computer Systems Engineering. Given my education, previous internship experience, and passion for technology I believe I am the ideal candidate for this position.

I frequently interact with fascinating and revolutionary technology with the potential to improve operating procedures in the industry as an engineering student. Recently, I worked with a team of my peers to build a Lane Following system for an autonomous car using a computer vision approach. We built a neural network to recognize various lane boundaries and used a live video stream from the vehicle to stay within the detected boundaries while driving. The finished product was able to perform real-time analysis of live video and provide classifications locally, using local hardware without an internet connection. Industries and consumers have a lot to gain from these new technologies, and I am interested in connecting these clients to their needs.

During my tenure with Circle Neurovascular Imaging, I worked with a team of Software and Machine Learning Engineers to develop and deploy a solution for acute stroke care. Using machine learning as a post-processing tool on medical images, the team was able to accurately identify stroke-affected areas of the brain. As part of the quality assurance team, it was my responsibility to ensure that all product developments meet internal and federal standards for any region we intended to deploy in. As part of this internship, I have learned key skills that I believe make me a better developer, such as test-driven development, an eye for quality, and a focus on maintaining standards.

I also worked for Hatch Ltd. where my primary responsibility was to perform traffic analysis using simulation software. The results of this analysis assisted in the planning and construction of Edmonton's light rail transit system. This internship provided experience in the transportation industry and allowed me to work with people with varied technical backgrounds, which helped me learn to apply perspectives when considering how to solve an engineering problem: a skill I believe will be valuable in this role.

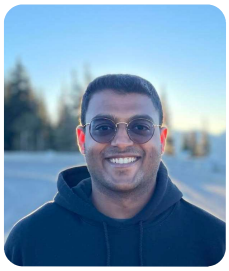
While I currently reside in Calgary, Canada, I am happy to relocate to most locations in Canada and the United States, and I am available for remote work.

I appreciate your time and consideration and look forward to hearing from you by phone at (403) 400-2652 or via email at aksh.ravishankar@gmail.com.

Thank You,
Aksh Ravishankar

Aksh Ravishankar

aksh.ravishankar@gmail.com	+1 403-400-2652
https://www.linkedin.com/in/aksh-ravishankar/	https://github.com/itsjustaksh



Education

B. Eng. | Sept 2018 – April 2023 | Carleton University

- Major: Computer Systems Engineering with a GPA of 4.0.
- Related coursework: Object-Oriented Development, Data Structures and Algorithms, Machine Learning, Cybersecurity, Communications Engineering, Project Management, Computer Architecture

Experience

Software Quality Assurance Analyst | Circle NVI | May 2021 – July 2022

- Proposed, developed, and maintained a scalable **automated testing framework** using Selenium/Python.
- Responsible for performing and documenting **software testing** steps on various platforms.
- Designed medium-fidelity **mock-ups** and architecture plan for mobile app.
- Implemented a **Continuous Deployment pipeline** to optimize development and testing workflow.
- Worked with customers to gather requirements and usage workflows.
- Used and maintained Docker environments in Linux to simulate deployment.

Infrastructure Intern | Hatch Ltd. | May 2019 – September 2019

- Worked with Light Rail Transit team to analyze traffic flow using simulation software.
- Worked with Software Development team to build in-house simulation integration tool.

Teaching Assistant | Carleton University | January 2021 – April 2023

- Responsible for helping students understand and apply concepts from **Python** and **Java** courses.
- Worked with professors and coworkers to **improve course delivery** using student feedback.

Student Outreach Representative | Carleton University | December 2019 – December 2022

- Reaching out to prospective students and answering queries about program specifics and university life.
- Documenting interactions between students and callers.

Projects

StaySafe

- Developed a person-tracker device that used **computer-vision** to track people passing through a doorway to keep count of the number present in a closed space; designed to help reduce the spread of COVID-19 in small indoor spaces.
- Built using a Raspberry Pi and an android device to share a live video feed using **IOT** methods.

Autonomous Car – Lane Following System

- Implemented an edge-detection-assisted **deep learning** hybrid model to identify lane boundaries in real-time in an autonomous car.
- Used traditional optimization techniques and pre-processing to reduce complexity and improve performance, allowing analysis of live video on-device.

Skills

- *Languages*: Python, Java, C/C++, Verilog, Linux/Unix Kernel, Windows Command Line, Bash
- *Tools*: Deep Learning (CNN), Computer Vision, TensorFlow/PyTorch, OpenCV, Git, JIRA, TeamCity, BitBucket, Docker, Maven, PyTest, OpenSSL, Embedded / SoC Dev
- *Leadership*: Skills gained as an Air Cadet Warrant Officer and as a University Teaching Assistant, mentored students to facilitate learning

Accolades

Eric Sigurdson Award – 2020-23 | Dean's Honor List recipient –2019-23 | J. Lorne Grey Scholarship – 2019

References

Nishanth Gandhi nishanth.gandhi@circlenvi.com – QA Manager at Circle NVI

Cristina Ruiz Martin cristinaruizmartin@sce.carleton.ca – Professor at Carleton University

Carleton University Unofficial Transcript

Ravishankar, Akshith **08 MAY 2023 Page 1 Of 2**

05-APR

101134841

OEN: 348359563

Department and Course Title	Course Number	Credit Value	Grade	Grade Point	Comments
Fall 2018 (September-December)					
BACHELOR OF ENGINEERING CIVIL CO-OPERATIVE EDUCATION					
English: Lit., Psychology, and the M:	ENGL 1300	0.50	A-	5.00	
Math/Stats: Calculus for Engin. or Pl	MATH 1004	0.50	A+	6.00	
Math/Stats: Linear Algebra (Eng. or S	MATH 1104	0.50	A	5.50	
Engin.: Problem Solving and Computers	ECOR 1606	0.50	A	5.50	
Engin.: Introduction to Engineering	ECOR 1010	0.50	B+	4.50	
Winter 2019 (January-April)					
BACHELOR OF ENGINEERING CIVIL CO-OPERATIVE EDUCATION					
Comm. Crses Discipline & Prof.: Commu	CCDP 2100	0.50	A-	5.00	
Math/Stats: Diff. Eqs. & Series Eng.	MATH 1005	0.50	A+	6.00	
Phys.: Electromagnetism & Wave Motior	PHYS 1004	0.50	A	5.50	
Chem.: Chemistry for Engineers	CHEM 1101	0.50	A-	5.00	
Engin.: Mechanics I	ECOR 1101	0.50	A-	5.00	
Good Standing					
Fall 2019 (September-December)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE EDUCATION					
Math/Stats: Multivariable Cal. Eng or	MATH 2004	0.50	A	5.50	
Math/Stats: Modeling and Comp. Metho	MATH 3800	0.50	A	5.50	
SysComp. Eng.: Foundations Imperative	SYSC 2006	0.50	A	5.50	
SysComp. Eng.: Intro to Digital Syste	SYSC 2310	0.50	A	5.50	
Elect.: Circuits and Signals	ELEC 2501	0.50	B	4.00	
Winter 2020 (January-April)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE EDUCATION					
Earth Sciences: Evolution of the Eart	ERTH 1011	0.50	A-	5.00	
Math/Stats: Mathematical Methods I	MATH 3705	0.50	A+	6.00	
SysComp. Eng.: Intro. Computer Org. a	SYSC 2320	0.50	A+	6.00	
SysComp. Eng.: Object-Oriented Sofwar	SYSC 2004	0.50	A+	6.00	
Elect.: Electronics I	ELEC 2507	0.50	A-	5.00	
SysComp. Eng.: Algorithms and Data St	SYSC 2100	0.50	A+	6.00	
Good Standing					
Summer 2020 (May-August)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE EDUCATION					
Engin.: Engineering Economics	ECOR 3800	0.50	A+	6.00	
Fall 2020 (September-December)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS					
SysComp. Eng.: Comp Syst Development	SYSC 3010	0.50	A	5.50	
SysComp. Eng.: Systems and Simulation	SYSC 3600	0.50	B+	4.50	
Engin.: Design/Analysis of Experiment	ECOR 2050	0.50	B	4.00	
SysComp. Eng.: Intro to Software Engi	SYSC 3020	0.50	A	5.50	
SysComp. Eng.: Intro to Real-Time Sys	SYSC 3310	0.50	A	5.50	
Winter 2021 (January-April)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS					
Tech.Soc.Env.St.: Science&Fiction:Cre	TSES 4012	0.50	A+	6.00	
SysComp. Eng.: Real-Time Concurrent S	SYSC 3303	0.50	A+	6.00	
SysComp. Eng.: Computer Systems Desig	SYSC 3320	0.50	A	5.50	
SysComp. Eng.: Operating Systems	SYSC 4001	0.50	A-	5.00	
SysComp. Eng.: Communication Theory	SYSC 3501	0.50	A-	5.00	
Good Standing					

*https://carleton.ca/registrar/transcript-legend/

Carleton University Unofficial Transcript

05-APR
101134841
OEN: 348359563

Department and Course Title	Course Number	Credit Value	Grade	Grade Point	Comments
Fall 2022 (September-December)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS					
SysComp. Eng.: Engineering Project	SYSC 4907	0.00	CTN		
Elect.: Elec Mat, Dev & Trans Media	ELEC 4705	0.50	A+	6.00	
SysComp. Eng.: Computer Systems Arch:	SYSC 4310	0.50	A+	6.00	
SysComp. Eng.: Computer Communicatior	SYSC 4602	0.50	A+	6.00	
SysComp. Eng.: Network and Software S	SYSC 4810	0.50	A+	6.00	
SysComp. Eng.: Computer Systems Desig	SYSC 4805	0.50	A+	6.00	
Winter 2023 (January-April)					
BACHELOR OF ENGINEERING COMPUTER SYSTEMS					
SysComp. Eng.: Intro to Machine Learr	SYSC 4415	0.50	A+	6.00	
Engin.: Professional Practice	ECOR 4995	0.50	A	5.50	
SysComp. Eng.: Web Development	SYSC 4504	0.50	A	5.50	
SysComp. Eng.: Engineering Project	SYSC 4907	1.00	A	11.00	
SysComp. Eng.: Communications Softwar	SYSC 4502	0.50	A	5.50	

Student Scholarships
2018 Carleton University Entrance Scholarship
2019 J. Lorne Gray Scholarship
2019 Deans' Honour List
2020 Eric Sigurdson Award
2020 Deans' Honour List
2021 Eric Sigurdson Award
2021 Deans' Honour List

*************** End of transcript *************** **ref:WP4-1099054-1**

*https://carleton.ca/registrar/transcript-legend/

CARLETON UNIVERSITY

Explanation of Grading Symbols
Standing in courses will be shown by alphabetical grades, which carry grade point values as follows:

A+	12	B+	9	C+	6	D+	3	F	0
A	11	B	8	C	5	D	2		
A-	10	B-	7	C-	4	D-	1		

Grade points indicated above are for courses of one (1.0) credit in value (See Credit Value Definition). Where the course credit is greater or less than one credit, the grade points are adjusted proportionately.

The following percentage equivalents apply to all final grades as follows:

A+	90-100%	B+	77-79%	C+	67-69%	D+	57-59%	F	0-49%
A	85-89%	B	73-76%	C	63-66%	D	53-56%		
A-	80-84%	B-	70-72%	C-	60-62%	D-	50-52%		

The following grades and notations may appear on the transcript:

AEG	Aegrotat
AUD	Audit
CEX	Current International Exchange
CH	Successful Challenge for Credit
CLP	Current Letter of Permission
CR	Credit granted
CTN	Continuing (Assigned to first half of a course taught over two consecutive terms)
CUO	Current University of Ottawa Exchange
CUR	Currently enrolled
DEF	Deferred
GNA	Grade not available
IP	In Progress
SAT	Satisfactory
UCH	Unsuccessful Challenge for Credit
UNS	Unsatisfactory
WDN	Withdrawn after full fee adjustment date

Other notations not in current use may be found on the Undergraduate and Graduate Calendars (https://calendar.carleton.ca)

Credit Value Definition
The basic unit of academic work is the "full credit" with a credit value of 1. 0. During the Fall Term and Winter Term, a course which spans both terms normally represents three class contact hours or equivalent per week plus laboratory and/or supplementary instruction as required. Each term contains twelve weeks of instruction. Courses offered during the Summer Term have equivalent workloads but are concentrated into a shorter period of time.
It is suggested that a course with a credit value of 1.0 is equivalent to six semester hours per week or nine-quarter hours. It should be noted, however, that courses with laboratory components could yield the equivalent of eight semester hours or twelve-quarter hours.

Course Numbering System
Effective Fall 2002 the University implemented a new course numbering system. Transcripts began to reflect this new numbering system in the Summer Term of 2003 when a new student information system was implemented. Course numbering examples are as follows:

Prior to Summer 2003	Effective Summer 2003
English 18.105	ENGL 1005

Graduation: Degrees, Diplomas and Certificates are awarded three times a year
Spring (June), Fall (November), Winter (February)

The Academic Year:
Summer Term: May - August
Fall Term: September - December
Winter Term: January- April

Awards/Scholarships:
Carleton awards and scholarships are noted on the transcript.

Language of Instruction:
Note that the language of instruction at Carleton University is English.

Course Set Aside
Three categories of courses that do not contribute to the fulfillment of graduation requirements may appear on the student's transcript:
Extra to the Degree (ETD): Passed credits that could have counted towards the degree but are in excess of the credits required for graduation.
No Credit for Degree (NCD): Passed credits that are ineligible for credit in the student's program.
Credit Forfeited: Courses that cannot be used for credit in the current or any subsequent program.

With study Abroad: Undergraduate Students who have successfully completed 2.0 to 3.5 credits at a non-Canadian university in an approved pattern under a recognized International Exchange program.

With Study Year Abroad: Undergraduate Students who have successfully completed 4.0 or more credits at a non-Canadian university in an approved pattern under a recognized International Exchange program.

Accrediation:
Accreditation: Carleton University, a founding member of the Council of Ontario Universities, enjoys full accreditation by the Ministry of Training, Colleges and Universities of the Province of Ontario. It is a charter member of the Association of Universities and Colleges of Canada; a member of the Association of Commonwealth Universities and participates fully in the Commonwealth Scholarship and Fellowship Plan; and is a member of the International Association of Universities.
For specific degree accreditation information, please consult the following Carleton University website:
http://calendar.carleton.ca/accreditation

Transcript Validation:
Transcript Validation: Questions regarding the content or validity of this document should be directed to the Registrar's Office at (613) 520-3500.