

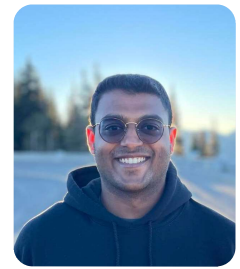
# Aksh Ravishankar

[aksh.ravishankar@gmail.com](mailto:aksh.ravishankar@gmail.com)

| +1 403-400-2652

| [LinkedIn](#)

| [GitHub](#)



## Education

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

- Major: Computer Systems Engineering with a GPA of 3.7.
- Related coursework: Computer architecture, Object-oriented development, Data structures and algorithms, Intro to machine learning, Network and cyber security, Communications engineering, Project management

## Experience

Software Quality Assurance Intern | 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 2018 – September 2018

- 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 – Current

- Responsible for helping students understand and apply concepts from Python and C/C++ 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 counted people entering and exiting a doorway to keep count of the number present in a store; designed to help reduce the spread of COVID-19 in small indoor spaces
- Built using a Raspberry Pi and a connecting app that can be installed on any android device to share a live video feed.

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 layers and analyze 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 Teaching Assistant, mentored students to facilitate learning

## Accolades

Eric Sigurdson Award – 2020-22 | Dean's Honor List recipient –2019-22 | J. Lorne Grey Scholarship – 2019

## References

Nishanth Gandhi [nishanth.gandhi@circlenvi.com](mailto:nishanth.gandhi@circlenvi.com) – QA Manager at Circle NVI

Susan McMillan [susan.mcmillan@hatch.com](mailto:susan.mcmillan@hatch.com) – Project Manager at Hatch Ltd.

# Carleton University Unofficial Transcript

Ravishankar, Akshith

05-APR

101134841

OEN: 348359563

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Department and Course Title	Course Number	Credit Value	Grade	Grade Point	Comments
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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 Ph 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 Computer 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.: Comm CDDP 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 on MATH 2004	0.50	A	5.50		
Math/Stats: Modeling and Comp. Method 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		

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Winter 2020 (January-April)

BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE EDUCATION					
Earth Sciences: Evolution of the Earth ERTH 1011	0.50	A-	5.00		
Math/Stats: Mathematical Methods I MATH 3705	0.50	A+	6.00		
SysComp. Eng.: Intro. Computer Org. & SYSC 2320	0.50	A+	6.00		
SysComp. Eng.: Object-Oriented Sofwa 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 Eng: 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 & 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

## Carleton University Unofficial Transcript

**Ravishankar, Akshith**

05-APR

101134841

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Department and Course Title	Course Number	Credit Value	Grade	Grade Point	Comments
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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 Communication	SYSC 4602	0.50	A+	6.00	
SysComp. Eng.: Network and Software	SYSC 4810	0.50	A+	6.00	
SysComp. Eng.: Computer Systems Design	SYSC 4805	0.50	A+	6.00	

Winter 2023 (January-April)

BACHELOR OF ENGINEERING COMPUTER SYSTEMS					
Engin.: Professional Practice	ECOR 4995	0.50	CUR		
SysComp. Eng.: Intro to Machine Learning	SYSC 4415	0.50	CUR		
SysComp. Eng.: Communications Software	SYSC 4502	0.50	CUR		
SysComp. Eng.: Web Development	SYSC 4504	0.50	CUR		
SysComp. Eng.: Engineering Project	SYSC 4907	1.00	CUR		

### **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:WP4-1080863-1

### Credit Value Definition

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.

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:

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

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

Carleton awards and scholarships are noted on the transcript.

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		

A- 80-84%    B- 70-72%    C- 60-62%    D- 50-52%

ABS	Absent
AEG	Aegrotat
AUD	Audit
CEX	Current International Exchange
CH	Successful Challenge for Credit
CLP	Current Letter of Permission
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
EXC	Successful International Exchange Credit
F	Failure
FND	Failure with no deferred examination allowed
FNS	Failure with no supplemental privileges
FWS	Failure with supplemental privileges
GNA	Grade not available
INC	Incomplete
IP/INP	In Progress
LOP	Successful Letter of Permission
P	Pass
PWD	Pass With Distinction
S/SAT	Satisfactory
UCH	Unsuccessful Challenge for Credit
U/UNS	Unsatisfactory
WDN	Withdrawn after full fee adjustment date

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**Credit Forfeited:** Courses that cannot be used for credit in the current or any subsequent 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.

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

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