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 <u>nishanth.gandhi@circlenvi.com</u> – QA Manager at Circle NVI Cristina Ruiz Martin <u>cristinaruizmartin@sce.carleton.ca</u> – Professor at Carleton University

Carleton University Unofficial Transcript

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ref:WP4-1099054-1

Ravishankar, Akshith

05-APR

101134841

OEN: 348359563

Course Credit Department and Course Title Number Value Gra	Grade ade Point Comments	Department and Course Title	Course Number	Credit Value Grade	Grade Point Comments	
Fall 2018 (September-December)		Winter 2020 (January-April)				
BACHELOR OF ENGINEERING CIVIL CO-OPERATIVE EDUCATION English: Lit., Psychology, and the M: ENGL 1300 0.50 A-	Carreton (miversity 5.00	BACHELOR OF ENGINEERING COMPUTER SYSTE Earth Sciences: Evolution of the Eart			TION 5.00	Franscrip
Math/Stats: Calculus for Engin. or Pl MATH 1004 0.50 A+	6.00	Math/Stats: Mathematical Methods I	MATH 3705	0.50 A+	6.00	
Math/Stats: Linear Algebra (Eng. or & MATH 1104 0.50 A	5.50	SysComp. Eng.: Intro. Computer Org. &	SYSC 2320	0.50 A+	6.00	
Engin.: Problem Solving and Computer: ECOR 1606 0.50 A	5.50	SysComp. Eng.: Object-Oriented Sofwan	SYSC 2004	0.50 A+	6.00	
Engin.: Introduction to Engineering ECOR 1010 0.50 B+	4.50	Elect.: Electronics I	ELEC 2507	0.50 A-	5.00	
		SysComp. Eng.: Algorithms and Data St	SYSC 2100	0.50 A+	6.00	
Winter 2019 (January-April)		Good Standing				
BACHELOR OF ENGINEERING CIVIL CO-OPERATIVE EDUCATION Comm. Crses Discipline & Prof.: Comm. CCDP 2100 0.50 A-	5.00	Umofficial Transcript Carl				
Math/Stats: Diff. Eqs. & Series Eng. MATH 1005 0.50 A+	6.00	Summer 2020 (May-August)				
Phys.: Electromagnetism & Wave Motior PHYS 1004 0.50 A	5.50	BACHELOR OF ENGINEERING COMPUTER SYSTE				
Chem.: Chemistry for Engineers CHEM 1101 0.50 A-	5.00	Engin.: Engineering Economics	ECOR 3800	0.50 A+	6.00	
Engin.: Mechanics I ECOR 1101 0.50 A-	5.00	Ussafficial Transcript Carl				
Good Standing		Fall 2020 (September-December)				
		BACHELOR OF ENGINEERING COMPUTER SYSTE				
Cardaton Debeggette Line/Trial Two-sanier		SysComp. Eng.: Comp Syst Development			5.50	
Fall 2019 (September-December)		SysComp. Eng.: Systems and Simulation			4.50	
BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE EDUC	CATION	Engin.: Design/Analysis of Experiment			4.00	
Math/Stats: Multivariable Cal. Eng on MATH 2004 0.50 A	5.50	SysComp. Eng.: Intro to Software Engi	SYSC 3020	0.50 A	5.50	
Math/Stats: Modeling and Comp. Methor MATH 3800 0.50 A	5.50	SysComp. Eng.: Intro to Real-Time Sys	SYSC 3310	0.50 A	5.50	
SysComp. Eng.: Foundations Imperative SYSC 2006 0.50 A	5.50					
SysComp. Eng.: Intro to Digital Syst SYSC 2310 0.50 A	5.50	unotalcial franscript Car				
Elect.: Circuits and Signals ELEC 2501 0.50 B	4.00	Winter 2021 (January-April)				
		BACHELOR OF ENGINEERING COMPUTER SYSTE				
		Tech.Soc.Env.St.: Science&Fiction:Cre			6.00	
		SysComp. Eng.: Real-Time Concurrent {			6.00	
		SysComp. Eng.: Computer Systems Desig	SYSC 3320	0.50 A	5.50	
			SYSC 4001		5.00	
	Carleton University	SysComp. Eng.: Communication Theory	SYSC 3501	0.50 A-	5.00	
		Good Standing				

Carleton University Unofficial Transcript

Ravishankar, Akshith

05-APR

101134841

OEN: 348359563

Department and Course Title	Cours Numbe	-	Credit Value	Grade	Grade Point	Comme	nts	Department and Course Title
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Fall 2022 (September-December)								
BACHELOR OF ENGINEERING COMPUTER SYST		000	0.00	71		ton		
SysComp. Eng.: Engineering Project	SYSC 4 ELEC 4		0.00		6.00			
Elect.: Elec Mat, Dev & Trans Media SysComp. Eng.: Computer Systems Archi			0.50		6.00			
SysComp. Eng.: Computer Systems Archi			0.50		6.00			
SysComp. Eng.: Network and Software (0.50		6.00			
SysComp. Eng.: Computer Systems Desig			0.50		6.00			
rleton University Unoffici								
Winter 2023 (January-April)			santi					
BACHELOR OF ENGINEERING COMPUTER SYST								
SysComp. Eng.: Intro to Machine Learn			0.50		6.00	lon-		
Engin.: Professional Practice	ECOR 4		0.50		5.50			
SysComp. Eng.: Web Development	SYSC 4		0.50		5.50			
SysComp. Eng.: Engineering Project	SYSC 4		1.00		11.00			
SysComp. Eng.: Communications Softwar	SYSC 4	502	0.50	A	5.50			
			sorij					
rleton University Unoffici								
Student Scholarships 2018 Carleton University Entrance Sch	olarshi	ip						
2019 J. Lorne Gray Scholarship	TAX N. I	*******						
2019 Deans' Honour List								
2020 Eric Sigurdson Award								
2020 Deans' Honour List								Umofficial Transcript
2021 Eric Sigurdson Award								Dissolficial Transcript
2021 Deans' Honour List								
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						ion		Umofficial Transcript

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Course Credit Grade Number Value Grade Point Comments

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

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	(
Α	11	В	8	C	5	D	2		
Α-	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% B 73-76% C 63-66% D 53-56% A 85-89%

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

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

In Progress IΡ

Satisfactory SAT

Unsuccessful Challenge for Credit

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)

CARLETON UNIVERSITY

Credit Value Definition

The basic unit of academic work is the "full credit" with a credit value of Three categories of courses that do not contribute to the 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 ENGL 1005

English 18.105

Graduation: Degrees, Diplomas and Certificates are awarded three

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

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.