Aksh Ravishankar

aksh.ravishankar@gmail.com +1 403-400-2652 <u>LinkedIn</u> <u>GitHub</u>



Education

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

- · Major: Computer Systems Engineering with a GPA of 4.0.
- · 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 <u>nishanth.gandhi@circlenvi.com</u> – QA Manager at Circle NVI Susan McMillan <u>susan.mcmillan@hatch.com</u> – Project Manager at Hatch Ltd.

Carleton University Unofficial Transcript

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Ravishankar, Akshith

05-APR

101134841

OEN: 348359563

| Course Credit Department and Course Title Number Value G | Grade rade Point Comments | | Course Number | Credit Value (| | 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 | BACHELOR OF ENGINEERING COMPUTER SYSTEMS Earth Sciences: Evolution of the Eart ER | | | | ON 5.00 | Transcrip |
| Math/Stats: Calculus for Engin. or Pl MATH 1004 0.50 A | | | ATH 3705 | | | 6.00 | |
| Math/Stats: Linear Algebra (Eng. or & MATH 1104 0.50 A | 5.50 | SysComp. Eng.: Intro. Computer Org. & SY | | | A+ | 6.00 | |
| Engin.: Problem Solving and Computer: ECOR 1606 0.50 A | 5.50 | SysComp. Eng.: Object-Oriented Sofwar SY | SC 2004 | 0.50 | A+ | 6.00 | |
| Engin.: Introduction to Engineering ECOR 1010 0.50 B | + 4.50 | Elect.: Electronics I EL | LEC 2507 | 0.50 | A- | 5.00 | |
| | | SysComp. Eng.: Algorithms and Data St SY | SC 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 Carle | | | | | |
| 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 SYSTEMS | | | | | |
| Chem.: Chemistry for Engineers CHEM 1101 0.50 A | 5.00 | Engin.: Engineering Economics EC | OR 3800 | 0.50 | A+ | 6.00 | |
| Engin.: Mechanics I ECOR 1101 0.50 A | - 5.00 | The Print Transcript Carle | | | | | |
| | | Fall 2020 (September-December) | | | | | |
| Good Standing | | BACHELOR OF ENGINEERING COMPUTER SYSTEMS | eom t | | | | |
| 24 - Table 1 | | SysComp. Eng.: Comp Syst Development SY | | 0.50 | A | 5.50 | |
| Fall 2019 (September-December) | Carleton University | SysComp. Eng.: Systems and Simulation SY | SC 3600 | 0.50 | B+ | 4.50 | |
| BACHELOR OF ENGINEERING COMPUTER SYSTEMS CO-OPERATIVE ED | UCATION | Engin.: Design/Analysis of Experiment EC | OR 2050 | 0.50 | В | 4.00 | |
| Math/Stats: Multivariable Cal. Eng on MATH 2004 0.50 A | | SysComp. Eng.: Intro to Software Eng: SY | SC 3020 | 0.50 | A | 5.50 | |
| Math/Stats: Modeling and Comp. Method MATH 3800 0.50 A | 5.50 | SysComp. Eng.: Intro to Real-Time Sys SY | SC 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 | / Carle | | | | | |
| Elect.: Circuits and Signals ELEC 2501 0.50 B | 4.00 | Winter 2021 (January-April) BACHELOR OF ENGINEERING COMPUTER SYSTEMS | s ten i | | | | |
| | | Tech.Soc.Env.St.: Science&Fiction:Cr∈ TS | SES 4012 | 0.50 | A+ | 6.00 | |
| | | SysComp. Eng.: Real-Time Concurrent & SY | SC 3303 | 0.50 | A+ | 6.00 | |
| | | SysComp. Eng.: Computer Systems Desig SY SysComp. Eng.: Operating Systems SY | SC 3320 SC 4001 | 0.50 | | 5.50 5.00 | |
| | Carleton University | SysComp. Eng.: Communication Theory SY | SC 3501 | 0.50 | A- | 5.00 | |
| | | Good Standing | | | | | |
| | | | | | | | |

Carleton University Unofficial Transcript

Ravishankar, Akshith

Course Credit

05-APR

101134841

OEN: 348359563

| Department and Course Title | Number | Value | Grade | Point | Commer | nts | Department an | d Course Title |
|--|-----------------|-------|-------|----------|--------|-------------|---------------|----------------|
| Fall 2022 (September-December) | | | | | | | | |
| BACHELOR OF ENGINEERING COMPUTER SYSTE | | | | | ton | | | |
| The second secon | SYSC 4907 | 0.00 | | 26 . IV. | | | | |
| | ELEC 4705 | | | 6.00 | | | | |
| SysComp. Eng.: Computer Systems Archi SysComp. Eng.: Computer Communication | | | | 6.00 | | | | |
| SysComp. Eng.: Network and Software (| | | | 6.00 | | | | |
| SysComp. Eng.: Computer Systems Design | | | | 6.00 | | | | |
| urleton University Unofficia | | | | | | | | |
| Winter 2023 (January-April) | | | | | | | | |
| BACHELOR OF ENGINEERING COMPUTER SYSTE | MS ECOR 4995 | 0 50 | CLID | | | | | |
| Engin.: Professional Practice SysComp. Eng.: Intro to Machine Learn | | | | | HOL | | | |
| SysComp. Eng.: Communications Softwar | | | | | | | | |
| | SYSC 4504 | | | | | | | |
| SysComp. Eng.: Engineering Project | SYSC 4907 | 1.00 | CUR | | | | | |
| | | | | | | | | |
| arleton University Unofficia | | | 1 | | | | | |
| Student Scholarships | | | | | | | | |
| 2018 Carleton University Entrance Scho 2019 J. Lorne Gray Scholarship | larship | | | | | | | |
| 2019 J. Lorne Gray Scholarship 2019 Deans' Honour List | | | | | | | | |
| 2020 Eric Sigurdson Award | | | | | | | | |
| 2020 Deans' Honour List | | | | | | | | Transcrip |
| 2021 Eric Sigurdson Award | | | | | | | | Trunscriptor |
| 2021 Deans' Honour List | | | | | | | | |
| | | | | | | | | |
| ********* End of transcr | ipt **** | ***** | ** | Carle | ef:WP | 4-1080863-1 | | |
| | | | | | | | | |

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

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Course Credit Grade Number Value Grade Point Comments

Explanation of Grading Symbols

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

| A+ | 12 | $^{\mathrm{B}+}$ | 9 | C+ | 6 | D+ | 3 | F | (|
|----|----|------------------|---|----|---|----|---|---|---|
| A | 11 | В | 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 0-4 |
|----|---------|-----------|-----------|-----------|-------|
| | ~ ~ ~ ~ | | | | |

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:

| 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 Failur

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

CARLETON UNIVERSITY

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.

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.

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: 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.

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