# Xi Wen

Santa Cruz, CA | (408)806-4969 | xiwen426@gmail.com | linkedin.com/in/xiwen426 | github.com/xiwen426

## EDUCATION

## University of California, Santa Cruz

Master of Science in Computer Science and Engineering, GPA: 3.96/4.00

Santa Cruz, CA

Coursework: Algorithm Analysis, Databases, Distributed Systems, Machine Learning, Software Project Design

Hong Kong Polytechnic University

Sept. 2016 - June 2020

Expected Graduation: March 2024

Bachelor of Science in Computing, GPA: 3.61/4.00

Hong Kong

Coursework: Data Structures, OOP, Scripting Languages, Networks, Big Data, Software Engineering

### Experience

## Software Engineer Intern

June 2023 – Sept. 2023

Keysight Technologies

Calabasas, CA

- Developed a VS Code extension in TypeScript as a coding copilot that conveyed coding context to the large language model (LLM), displayed inference results, and enabled users to accept suggestions using the tab key
- Created a gRPC server in Python on AWS for conducting model inferences in response to gRPC requests
- Leveraged **Amazon Aurora** to store user interaction data, including acceptance rates, user prompt modifications post-acceptance, and code contributions from the extension
- Formulated and executed SQL queries to assess user data metrics for evaluating fine-tuned models' performance

## Software Engineer

Aug. 2020 - July 2022

Tencent Holdings Ltd.

Beijing, China

- Developed and maintained a data management tool used by **50** colleagues for a video streaming platform with over **0.3** billion daily active users and **3** billion video views per day
- Implemented the business logic in C++, which included various filtering features and metrics tracking
- Used MySQL relational database for storing data consumer configurations and model configurations
- Wrote SQL queries to ClickHouse to process 3 billion data per day to display model features, labels, and metrics
- Sent logs and alerts using **Python** on an hourly and daily basis to notify health, metrics, and warnings, which caught **4** bugs caused by upstream changes
- Improved reusability and system reliability by abstracting functions, such as filtering methods and negative sampling methods, and allowing users to change the model by editing configurations
- Provided API access to the database, allowing the front-end to read and write configurations

## Summer Research Assistant

July 2018 – Aug. 2018

Massachusetts Institute of Technology, Advised by Prof. Hal Abelson

Cambridge, MA

- Implemented positioning functions with Bluetooth Low Energy in **Java**, by filtering **RSSI**(Received Signal Strength Indicator) signals, converting to distance, and calculating positions based on the distances
- Implemented 3 algorithms for filtering, converting and calculating, as signals vary under different temperatures
- Used Android Bluetooth library to get the RSSI and used Apache-Math-3 library in calculating the distances
- Published a workshop paper introducing the use cases of block-based approaches to IoT

## Projects

Arrcus Project | Networking, SRv6, Python, Kafka, TimescaleDB, React, Flask

Jan. 2023 – March 2023

- Consumed streamed routing data from Kafka Topic and did exploratory data analysis using Python
- Detected networking anomalies of SRv6 like duplicated MAC addresses, convergence timeout from streamed data
- Writing and reading the anomalies information into a SQLite relational database
- Created a dashboard to display the anomalies and sent alerts to the front-end in **React**

## E-commerce Web Application | HTML/CSS, Javascript, Flask, PHP, MySQL

Sept. 2019 – Dec. 2019

- Developed a web application that allows users to view products, add to shopping carts, and make purchases
- Implemented a responsive front-end with REST API using HTML/CSS, Javascript and Flask
- Utilitized MySQL as a relational database to store product, customer and order information
- Connected the website to the MySQL using PHP to send and receive data

## TECHNICAL SKILLS

Programming Languages: C++/C, Python, Java, SQL, Typescript, JavaScript, HTML/CSS, PHP Libraries/Frameworks: pandas, NumPy, TensorFlow, PyTorch, Huggingface, Scikit, Matplotlib, React, Node.js Tools/Databases: Linux, Git, MySQL, AWS, GCP, Docker, Kafka, ClickHouse, VS Code, IntelliJ, Eclipse Machine Learning: Logistic Regression, KNN, K-Means, Decision Trees, Neural Networks, SVM, Naive Bayes



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Jan 26, 2024 Print Date:

## \*\*\* UNOFFICIAL \*\*\*

Name: Wen, Xi Student ID: 2005917

Institution Info:

University of California, Santa Cruz 1156 High Street Santa Cruz, CA 95064

## **Beginning of Graduate Record**

## 2022 Fall Quarter

Program: Plan:	Computer Science & Engineer MS in Computer Science and Engineering				
Course	<u>Description</u>	<u>Attempted</u>	Earned	<u>Grade</u>	<u>Points</u>
CSE 200 CSE 201	Research & Teaching Analysis Algorithms	3.00 5.00	3.00 5.00	S A	0.000 20.000
LAAD 210	OralCommunication:TAs	2.00	2.00	S	0.000
Academic Standing Effective	12/14/2022: Good Standing				
		Attempted	Earned	GPA Units	Points
Term GPA	0.00 Term Totals	10.00	10.00	5.00	20.000
Transfer Term GPA Combined GPA	Transfer Totals 0.00 Comb Totals	0.00 10.00	0.00 10.00	0.00 5.00	0.000 20.000
Cum GPA	0.00 Comb rotals				20.000
Transfer Cum GPA	Transfer Totals	10.00 0.00	10.00 0.00	5.00 0.00	0.000
Combined Cum GPA	0.00 Comb Totals	10.00	10.00	5.00	20.000
	2023 Winter Quarter				
Program:	Computer Science & Engineer				
Plan:	MS in Computer Science and Engineering				
<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<b>Earned</b>	<u>Grade</u>	Points
CSE 115B	Software Design Pro	5.00	5.00	A+	20.000
CSE 215 CSE 240	Design Data Systems Artif Intelligence	5.00 5.00	5.00 5.00	A A+	20.000 20.000
Academic Standing Effective (	G	0.00	0.00	,,,	20.000
rioduomio Glamanig Encours	55/25/25/25				
		<u>Attempted</u>	<u>Earned</u>	<b>GPA Units</b>	<b>Points</b>
Term GPA Transfer Term GPA	0.00 Term Totals Transfer Totals	15.00 0.00	15.00 0.00	15.00 0.00	60.000 0.000
Combined GPA	0.00 Comb Totals	15.00	15.00	15.00	60.000
Cum GPA	0.00 Cum Totals	25.00	25.00	20.00	80.000
Transfer Cum GPA	Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	0.00 Comb Totals	25.00	25.00	20.00	80.000
	2023 Spring Quarter				
Program: Plan:	Computer Science & Engineer MS in Computer Science and Engineering				
Course	Description	Attempted	Earned	<u>Grade</u>	Points
CSE 210A	Programming Languag	5.00	5.00	A+	20.000
CSE 290C	Adv Machin Learning	5.00	5.00	A	20.000
PHYE 9B PHYE 15N	BegDinghySailing Tennis	0.00 0.00	0.00 0.00	S S	0.000 0.000
PHYE 25A	Fencing: Epee	0.00	0.00	S	0.000
Academic Standing Effective (					
		Attompted	Earnad	CDA Unito	Dointo
Term GPA	4.00 Term Totals	<u>Attempted</u> 10.00	<u>Earned</u> 10.00	GPA Units 10.00	<u>Points</u> 40.000
Transfer Term GPA	Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	4.00 Comb Totals	10.00	10.00	10.00	40.000



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Jan 26, 2024 Print Date:

## \*\*\* UNOFFICIAL \*\*\*

Name:	Wen, Xi
Student ID:	2005917

Cum GPA	4.00 Cum Totals	35.00	35.00	30.00	120.000
Transfer Cum GPA	Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	4.00 Comb Totals	35.00	35.00	30.00	120.000

## 2023 Summer Quarter

Computer Science & Engineer

Program: Plan: MS in Computer Science and Engineering

CSE	297F	Ind Study/Research	2.00	2.00	S	0.000
Course		<u>Description</u>	<u>Attemptea</u>	<u> ⊨arned</u>	<u>Grade</u>	Points

Academic Standing Effective 01/24/2024: Good Standing

			<u>Attempted</u>	<u>Earned</u>	GPA Units	<u>Points</u>
Term GPA	0.00	Term Totals	2.00	2.00	0.00	0.000
Transfer Term GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	0.00	Comb Totals	2.00	2.00	0.00	0.000
Cum GPA	4.00	Cum Totals	37.00	37.00	30.00	120.000
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	4.00	Comb Totals	37.00	37.00	30.00	120.000

## 2023 Fall Quarter

Program:	Computer Science & Engineer

MS in Computer Science and Engineering Plan:

Course		<u>Description</u>	<u>Attempted</u>	<b>Earned</b>	<u>Grade</u>	<u>Points</u>
CSE	232	Distributed Systems	5.00	5.00	A-	18.500
CSE	244A	Foundations of DL	5.00	5.00	Α	20.000
CSE	297F	Ind Study/Research	2.00	2.00	S	0.000
PHYE	9C	IntermedDinghySail	0.00	0.00	S	0.000

## Academic Standing Effective 12/18/2023: Good Standing

			<u>Attempted</u>	<u>Earned</u>	<b>GPA Units</b>	<b>Points</b>
Term GPA	3.85	Term Totals	12.00	12.00	10.00	38.500
Transfer Term GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	3.85	Comb Totals	12.00	12.00	10.00	38.500
Cum GPA	3.96	Cum Totals	49.00	49.00	40.00	158.500
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	3.96	Comb Totals	49.00	49.00	40.00	158.500
Graduate Career Totals						

Cum GPA:	3.96	Cum Totals	49.00	49.00	40.00	158.500
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	3.96	Comb Totals	49.00	49.00	40.00	158.500

End of \*\*\* UNOFFICIAL \*\*\*



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Name:

WEN Xi (温希)

ID / Passport No.:

120113199804260\*\*\*

Student No.: 16098574D

Study Starting From **Programme Title** Mode of Attendance 2016-2017 Semester 1 BSc (HONS) INTERNET & MULTIMEDIA TECHNOLOGIES FULL-TIME 2017-2018 Semester 1 BSc (HONS) COMPUTING **FULL-TIME** (Transferred study) 2017-2018 Semester 2 BSc (HONS) COMPUTING FULL-TIME MINOR IN BUSINESS ADMINISTRATION 2019-2020 Semester 2 BSc (HONS) COMPUTING **FULL-TIME** Qualification(s) Attained BACHELOR OF SCIENCE IN COMPUTING (GPA for Major: 3.61) WITH SECOND CLASS HONOURS, DIVISION 1 GPA for Award: 3.61

Year/Semester of Graduation: 2019-2020 Semester 2

Year of Award: 2020

Subject Code/Title 2016-2017 Semester 1	GPA (cumulative); 4.00	Credit	Grade/Code
AMA1110	BASIC MATHEMATICS I - CALCULUS AND PROBABILITY & STATISTICS	3.0	A+
EIE1002	ELECTRONICS SCIENCE	3.0	A+
EIE2106	SIGNAL AND SYSTEM ANALYSIS	3.0	A+
ELC1014	ADVANCED ENGLISH FOR UNIVERSITY STUDIES	3.0	A A
ENG1003	FRESHMAN SEMINAR FOR ENGINEERING	3.0	C+
ENG2002	COMPUTER PROGRAMMING	3.0	A.
2016-2017 Semester 2	GPA (cumulative): 3.91	3.3	,,
APSS1L01	TOMORROWS LEADERS	3.0	Α
COMP1003	STATISTICAL TOOLS AND APPLICATIONS	1.0	B+
COMP1011	PROGRAMMING FUNDAMENTALS	3.0	A+
COMP2012	DISCRETE MATHEMATICS	3.0	Α
COMP3512	LEGAL ASPECTS, PROFESSIONALISM AND ETHICS OF COMPUTING	3.0	A+
ELC2012	PERSUASIVE COMMUNICATION	3.0	B+
ELC3521	PROFESSIONAL COMMUNICATION IN ENGLISH	2.0	Α
ENGL2001	ENGLISH FOR PROFESSIONAL COMMUNICATION	3.0	C+
2016-2017 Summer Term Joined an exchange pro APSS1A21			-
		3.0	В
2017-2018 Semester 1 COMP1001	GPA (cumulative): 3.81 PROBLEM SOLVING METHODOLOGY IN INFORMATION TECHNOLOGY	2.0	
COMP2011	DATA STRUCTURES	3.0	A
COMP2021	OBJECT-ORIENTED PROGRAMMING	3.0	A+
COMP2121	E-BUSINESS	3.0	C
COMP2411	DATABASE SYSTEMS	3.0	A
COMP2421	COMPUTER ORGANIZATION	3.0 3.0	B+
COMP4422	COMPUTER GRAPHICS		A
		3.0	В



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120113199804260\*\*\*

Student No.: 16098574D

			~
Subject Code/Title		Credit	Grade/Code
2017-2018 Semester 2	GPA (cumulative): 3.66		
AF2111	ACCOUNTING FOR DECISION MAKING	3.0	В
CBS1102P	ADVANCED COMMUNICATION SKILLS IN CHINESE	3.0	B+
COMP2222	INTRODUCTION TO HUMAN-COMPUTER INTERACTION METHODS	3.0	В
COMP2322	COMPUTER NETWORKING	3.0	B+
COMP2432	OPERATING SYSTEMS	3.0	B+
COMP3021	PROGRAMMING LANGUAGE PARADIGMS	3.0	B+
COMP4434	BIG DATA ANALYTICS	3.0	В
2018-2019 Semester 1	GPA (cumulative): 3.74		
COMP2021	OBJECT-ORIENTED PROGRAMMING	3.0	Α
COMP3011	DESIGN AND ANALYSIS OF ALGORITHMS	3.0	B+
COMP3211	SOFTWARE ENGINEERING	3.0	Α
COMP3438	SYSTEM PROGRAMMING	3.0	Α
COMP4433	DATA MINING AND DATA WAREHOUSING	3.0	B+
2018-2019 Semester 2	GPA (cumulative): 3.74		
Joined an exchange p	rogramme		
2019-2020 Semester 1	GPA (cumulative): 3.74		_
CLC3242P	CHINESE FOR PROFESSIONAL COMMUNICATION IN COMPUTING	2.0	B+
COMP4913	CAPSTONE PROJECT	6,0	L
2019-2020 Semester 2	GPA (cumulative): 3.63		
BME1D04	SKIN-CARE TECHNOLOGIES: PRINCIPLES, APPLICATIONS AND SAFETY	3.0	B+
CB\$2C04P	APPRECIATION OF THE FOUR GREAT CLASSICAL CHINESE NOVELS	3.0	B+
CC2S01P	APPRECIATING AND APPLYING CHINESE LITERARY MASTERPIECES IN MODERN DAILY LIFE	3.0	В
COMP3000	WORK INTEGRATED EDUCATION	4.0	Р
COMP4913	CAPSTONE PROJECT	6.0	C+
Condit Transfer			
Credit Transfer		Credit	Grade/Code
Subject Code/Title		Credit	Grade/Code
2017-2018 Semester 1	INTRODUCTORY PROBABILITY	2.0	N/A
AMA1104			B N/A
APSS1A21	SERVICE LEADERSHIP	3.0	
APSS1B11	GLOBALIZATION AND THE CHANGING MIDDLE CLASS	3.0	N/A
APSS1L01	TOMORROW'S LEADERS	3.0	A
COMP1003	STATISTICAL TOOLS AND APPLICATIONS	1.0	B+
COMP1011	PROGRAMMING FUNDAMENTALS	3.0	A+
COMP2012	DISCRETE MATHEMATICS	3.0	A N/A
COMP3511	LEGAL ASPECTS AND ETHICS OF COMPUTING	2.0	N/A
COMP4431	ARTIFICIAL INTELLIGENCE	3.0	N/A
EIE1002	ELECTRONICS SCIENCE	3.0	A+
EIE2106	SIGNAL AND SYSTEM ANALYSIS	3.0	A+
ELC1014	ADVANCED ENGLISH FOR UNIVERSITY STUDIES	3.0	A
ELC2012	PERSUASIVE COMMUNICATION	3.0	B+
ELC3522	ENGLISH FOR TECHNICAL PROJECT WRITING	2.0	A
ENG2002	COMPUTER PROGRAMMING	3.0	Α
2019-2020 Semester 1 COMP3903	TRANSFERRED CREDITS FOR SUBJECTS STUDIED OVERSEAS (9 CREDITS)	9.0	N/A



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Name:

WEN Xi (温希)

ID / Passport No.:

120113199804260\*\*\*

Student No.: 16098574D

**Subject Withdrawal** 

Subject Code/Title

2018-2019 Semester 1 COMP4122

GAME DESIGN AND DEVELOPMENT

Credit 3.0

Credit Requirement and Attainment

BSc (HONS) COMPUTING

Programme Credit Requirement: 124.0 including 4.0 Training credit(s) Student Credit Requirement: 121.0 including 4.0 Training credit(s)

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Credits Attained: 124.0 including 4.0 Training credit(s)

## Other Mandatory Graduation Requirement(s)

Completed (separate certification(s) is/are issued)

- · approved Healthy Lifestyle programme
- · approved Work-integrated Education activities

### Remarks

• Included in the Dean's Honours List 2016/17

- End of Transcript -

Date of Issue: 01 September 2021





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## **EXPLANATION**

## 1. Credit

A credit is used to indicate student effort. A student is expected to spend about 35 to 45 hours of study (inclusive of contact hours, private study, etc.) to earn a credit.

## 2. Grade/Code

Grade/ Code	Grade Point (From 2020-21)	Interpretation (From 2020-21)	Grade Point (Before 2020-21)	Interpretation (From 2009-10 to 2019-20)	Interpretation (From 2002-03 to 2008-09)	Interpretation (Before 2002-03,
A+	4.3		4.5	Exceptionally Outstanding		Outstanding
Α	4.0	Excellent	4.0	Outstanding	Excellent	Excellent
Α-	3.7		(Not Applicable)	(Not Applicable)	(Not Applicable)	(Not Applicable
В+	3.3		3.5	Very Good		Very Good
В	3.0	Good	3.0	Good	Good	Good
B-	2.7	99	(Not Applicable)	(Not Applicable)	(Not Applicable)	(Not Applicable)
C+	2.3		2.5	Wholly Satisfactory		Wholly Satisfactory
С	2.0	Satisfactory	2.0	Satisfactory	Satisfactory	Satisfactory
C-	1.7	- M	(Not Applicable)	(Not Applicable)	(Not Applicable)	(Not Applicable)
D+	1.3	Pass	1.5	Barely Satisfactory		Barely Adequate
D	1.0	Fass	1.0	Barely Adequate	Marginal	Weak
F	0.0	Fail	0.0	Inadequate	Failure	Inadequate
Í	*	Assessment to be con (before 2005-06)	npleted (from 2005-06) /	Incomplete not due to the	e fault of student	
L	•	Subject to be continu	ed in the following sem	nester		
М	*	Pass with Merit (from 2	2006-07)			
N	*	Assessment is not re	quired	,		
Р		Pass on an ungraded	subject			
S	0.0	Absent from assessm	nent			
U	(%)	Fail on an ungraded s	Subject			

(\* omitted in the calculation of all GPAs)

Grades with the following symbols denote disqualification of result due to:

<sup>#</sup> academic dishonesty / non-compliance with examination regulations (before 2019-20)
% academic dishonesty (from 2019-20)
@ non-compliance with examination regulations (from 2019-20)



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## 3. GPA

GPA (cumulative) GPA for Major

The cumulative Grade Point Average is the average calculated for all subjects taken. For students taking a major/minor option, their award classifications will be based on

the GPAs they obtained for both their major and minor studies.

GPA for Minor

The Grade Point Average for Minor takes into account subjects which are relevant to the

student's minor studies.

GPA for Award

The Grade Point Average for Award is the final GPA value based on which the award

classification of a student is determined.

All GPA values are capped at 4.00 before 2020-21. From 2020-21 onwards, all GPA values are not capped, and the highest GPA value is 4.30.

Grades obtained through credit transfer will also be taken into consideration in the GPA calculation.

Starting from the 2005-06 academic year, only the grade obtained in the final attempt of a retaken subject will be included in the calculation of the above GPAs. For some programmes, weightings may be applied in the calculation of the GPA

### 4. Credits Attained

The Credits Attained only take into consideration those credits which are relevant for contributing to the award being pursued by a student.

## 5. Medium of Instruction

English is the medium of instruction and is used for classes, written assignments and examinations unless special approval has been given to a subject due to its specific nature.

- End of Explanation -