RESET

Georgia Tech
College of Computing

Degree Worksheet
MSCS
Area of Specialization: Computing Systems

Computing Systems Specialization = 18 hours of core + required electives
12 hours of "free" electives
30 Hours Total for Degree

Must earn grades of "B" or higher in all courses that count in the Area of Specialization. Must earn a minimum 3.0 overall GPA to graduate. Only letter grade coursework will count.

SECTION 1 - Demographics

Name: _____ **GT ID#** (example: *90XXXXXXX*)**:** _____

Graduation Semester (example: *Spring 2024*)**:** _____ **Date:** _____

SECTION 2 – Computing Systems Core (9 hours)

Take one (1) course from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6505	Computability, Complexity, and Algorithms			
	CS 6515	Introduction to Graduate Algorithms *(formerly CS 8803 GA Graduate Algorithms)*			

And, two (2) courses from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6210	Advanced Operating Systems			
	CS 6241	Compiler Design			
	CS 6250	Computer Networks			
	CS 6290	High-Performance Computer Architecture			
	CS 6300 **OR** CS 6301	Software Development Process **OR** Advanced Topics in Software Engineering *(formerly CS 8803 ASE)*			
	CS 6390	Programming Languages			
	CS 6400	Database Systems Concepts and Design			

Section 2 - Transfer Credit / Substitutions (if applicable)

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

Continued on next page…

SECTION 3 – Computing Systems Required Electives (9 hours)

Pick three (3) from:

Mark (X)	Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade
	CS 6035	Introduction to Information Security			
	CS 6200	Graduate Introduction to Operating Systems			
	CS 6211	System Design for Cloud Computing *(formerly CS 8803 O12)*			
	CS 6220	Big Data Systems and Analytics			
	CS 6222	Machine Learning Systems			
	CS 6235	Real Time Systems			
	CS 6238	Secure Computer Systems			
	CS 6239	Enterprise Cybersecurity Management			
	CS 6245	Paralleling Compilers			
	CS 6260	Applied Cryptography			
	CS 6261	Security Operations and Incident Response			
	CS 6262	Network Security			
	CS 6263	Intro to Cyber Physical Systems Security			
	CS 6264	Information Security Lab – System and Network Defenses *(formerly CS 8803 O11)*			
	CS 6267	Critical Infrastructures Security and Resilience			
	CS 6268	Psychology of Cybersecurity			
	CS 6270	Technical Introduction to Blockchain and Cryptocurrency			
	CS 6291	Embedded Systems Optimization			
	CS 6310	Software Architecture and Design			
	CS 6340	Software Analysis and Testing			
	CS 6365	Introduction to Enterprise Computing			
	CS 6422	Database System Implementation			
	CS 6550	Design and Analysis of Algorithms			
	CS 6675	Advanced Internet Computing Systems and Applications			
	CS 6747	Advanced Malware Analysis			
	CS 7210	Distributed Computing			
	CS 7260	Internetworking Architectures and Protocols			
	CS 7263	Advanced Topics in Network Security and Management			
	CS 7270	Networked Applications and Services			
	CS 7280	Network Science			
	CS 7290	Advanced Topics in Microarchitecture			
	CS 7292	Reliability and Security in Computer Architecture			
	CS 7295	GPU Hardware and Software (*formerly CS 8803 O21*)			
	CS 7400	Quantum Computing (*formerly CS 8803 O13)*			
	CS 7560	Theory of Cryptography			
	CS 8803-FPL	Special Topics: Foundations of Programming Languages			
	CSE 6220	High-Performance Computing			

Continued on next page…

Section 3 - Transfer Credit / Substitutions (if applicable)

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

SECTION 4 – "Free" Electives (12 hours) *"Free" Electives are any remaining letter grade courses not used above and within program rules.*

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

Section 4 - Transfer Credit / Substitutions (if applicable)

Prefix & No.	Course Title	Semester Taken	Credit Hours	Grade

This section to be completed by MSCS Advisor

Notes: **S-GPA:** _____ **C-GPA:** _____

Advisor Sign _____ Date _____