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MASTER OF SCIENCE DEGREE PROGRAM

UIC offers a world-class computer science education taught by globally recognized experts.

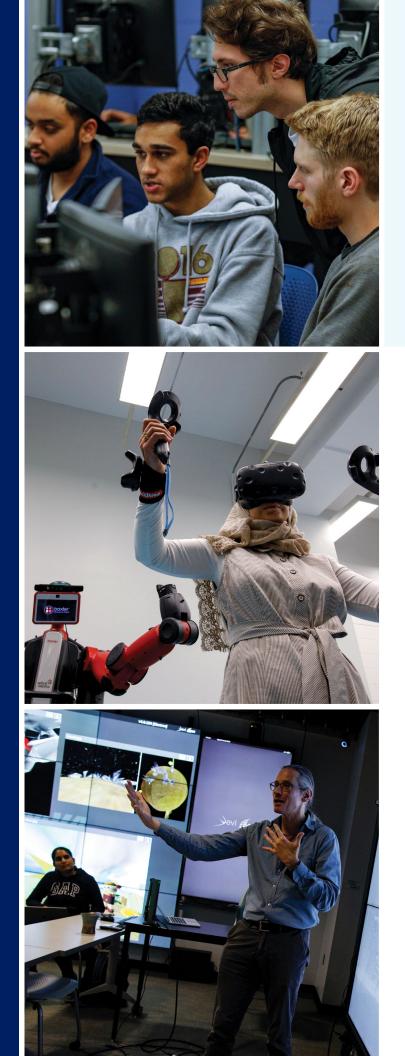
A master's degree from UIC will prepare you to enter the CS field at a higher level—or move into a higher position than you now have.

Worldwide demand for experts in artificial intelligence, machine learning, cybersecurity, software engineering, and other computer science fields continues to grow. The U.S. Bureau of Labor Statistics cites a \$118,000 median annual salary for CS jobs and anticipates a 16-percent increase in positions by 2028, noting that most will require a master's degree.

UIC'S COMPUTER SCIENCE DEPARTMENT RANKING ACCORDING TO CSRANKINGS

(at the time of this writing)

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UIC's MS program provides a comprehensive foundation in CS and can be completed in three ways.

THESIS OPTION

In conjunction with your coursework, the **thesis** option pairs you with a faculty mentor and gives you the chance to write an original research-based thesis on a topic that interests you. Students have found that the specialization of a thesis makes them more marketable to employers. Thesis experience also is ideal for students who might want to continue on for doctoral study after the MS.

UIC's Academic Strengths

Artificial Intelligence Machine Learning and Data Mining Natural Language Processing

Computer Security Software Engineering Theory

Featured Courses

What will you take as an MS student at UIC? Explore your choices at cs.uic.edu (see the Courses page under the Graduate menu). Here are a few that have captured our current students' attention-and that have proved especially valuable in their careers after UIC.

CS 411 ARTIFICIAL INTELLIGENCE I

This course covers problem representation, rule-based problemsolving methods, and heuristic search techniques. Students explore applications in expert systems, theorem proving, and language understanding. Individual projects are assigned.

CS 426 VIDEO GAME DESIGN AND DEVELOPMENT

Learn about the theory and practice of video game design and programming. Students form interdisciplinary teams to design, build, and demonstrate video games or related interactive simulation environments.

CS 428 VIRTUAL, AUGMENTED, AND MIXED REALITY

Students develop an understanding of virtual reality, augmented reality, and mixed reality environments. Topics include display devices, input devices, tracking, navigation, interaction, collaboration, generating visuals and sounds, software tools, applications, evaluation, and safety.

CS 478 DESIGN OF MOBILE APPS

Through in-class instruction and programming assignments, students become familiar with the design and implementation of mobile applications. Topics span operating systems, object-oriented languages and programming environments for mobile platforms, integration with hardware components, and location-aware applications.

PROJECT OPTION

The project option allows you to complete a capstone project with guidance from a faculty advisor, but it does not require a formal presentation or defense. This is a way to delve into a particular application of computer science and showcase your work to potential employers.

COURSEWORK OPTION

The coursework-only option allows you to complete all the credits toward your MS degree through our comprehensive selection of computer science courses.

A Step Ahead

Thanks to the strength of our curriculum and UIC's global connections, many MS students are able to get internships that help them level up their career planning.

Simran Jumani

Internship: Facebook

Location: Menlo Park, CA

Assignment: Development of machine learning models

Enrichment: Participating in an internal Facebook hackathon and showcasing a prototype

Her perspective: "I was assigned to a manager who guided me throughout the internship and helped me pick the projects that I was most interested in. Interns are treated on par with full-time employees and work on projects that have a direct impact on Facebook's products."



Aishwarya Chevali

Internship: Expedia

Location: Chicago, IL

Assignment: Software development on the multi-item packages team, experimenting with ideas for a new site feature and bringing it to life

Enrichment: Learning how to think about what a customer wants from a travel website

Her perspective: "It is surprising how the slightest changes to a product have a huge impact on the business."



After UIC, where to?

Companies that have hired graduates of the **UIC MS in Computer Science program include:**

Adobe	Hertz
Amazon	HP
Amazon Web Services	EY (Ernst & Young)
Anthem	Kroger
Apple O	LG
Applied Materials	McKinsey & Company
Bitwise Global	Microsoft
Bloomberg LP	Morningstar
Blue Cross Blue Shield	Optum
BMW	Orbitz
Brightstar	PEAK6 Capital Management
Cerner Corporation	Raytheon
Cisco	Redbox
Cision	Spectralink
Conversant	Verizon
Dassault Systems	Visa
Deloitte	VMWare
Facebook	Walmart
Factset	Wayfair
Google	Xaptum
HERE Technologies	

Marco Cavallo



Marco Cavallo was drawn to UIC by his passion for computer graphics-an area in which UIC's Electronic Visualization Lab is a world leader. He focused his coursework on computer graphics, machine learning, and artificial intelligence, and wrote an original thesis on augmented reality.

Augmented reality is at the core of Cavallo's role in Apple's Technology Development Group, a large team at the company. He is in charge of creating data visualization tools and machine learning infrastructure to foster computer vision research.

His advice to incoming UIC master's students? Spend your last six months of the program on a thesis or a research assistantshipopportunities that are plentiful at UIC and, in Cavallo's view, crucial in obtaining your first job.

O Palak Jain

CTO, PEAK6 Capital Management

Palak Jain joined Peak6 Capital Management as a software engineer after completing her MS in computer science at UIC. Nine years later, she leads a team of 50 people as Peak6's CTO.

Jain cites the computer science faculty as the highlight of her time at UIC, noting that they helped to tie classroom lessons to the problems faced by real businesses. "If you are looking for a career," she said, UIC computer science "prepares you for the real world."

Jain is passionate about increasing the presence of women in technology. She visits universities and high schools to talk about tech careers, runs an all-female summer fintech internship at PEAK6, and serves as a mentor to younger women and girls who are interested in CS. "In Chicago, there are only 18 female tech leaders, less than 1 percent-and I'm one of them," she said. "If more women can get into tech, that would be great in my mind."

Admissions

Full details on how to apply-including requirements and deadlines-are at cs.uic.edu under the Graduate menu.

Interested in graduate study at UIC? Talk to us. Contact our computer science graduate team with questions or for an informal conversation.

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