

COMPUTER SCIENCE | INDUSTRY ROADMAP

Career Paths and Desired Skills

Companies which utilize technological talent range from hardware manufacturers to bio-technology startups and financial companies. As technological innovation becomes more accessible, the line between tech and traditional industries becomes increasingly blurred. Careers in technology might include software engineering, data science, UI/UX design, product management, research, business development, sales, marketing, operations, customer relations or recruiting.

Industry and Entry-Level Role

Key Functions

Internships to help you get there

SOFTWARE ENGINEERING, SOFTWARE DEVELOPER

Software engineering is a broad field which encompasses a variety of different specializations. Software engineers use programming to create applications or systems that fulfill the need of a user. They develop, design, test, and maintain these applications or systems.

- Analyze user needs
- Structure and create technological applications or systems
- Develop algorithms
- Utilize programming languages

- Software Engineering Intern, Google
- Software Engineering Intern, Amazon

Skills: Extensive legal knowledge | Research, writing | Logical analysis | Leadership project management

DATA SCIENCES, JUNIOR DATA ANALYST

Data scientists analyze and interpret large quantities of data to solve complex problems. In the technology industry, data scientists are often hired by companies to help develop new solutions or practices to business challenges. Data scientists have specialized, quantitative skill sets and often have additional expertise in programming.

- Extract large quantities of data from different sources
- Utilize skills to analyze data
- Create predictive models
- Interpret data to provide actionable feedback

- Summer Data Science Metcalf Intern, Actelligent
- Summer AI/Data Science Metcalf Intern, AION Biosystems

Skills: Extensive legal knowledge | Research, writing | Logical analysis | Leadership project management

PRODUCT MANAGEMENT, PRODUCT MANAGER

Product managers guide the development of a product and lead the cross-functional team responsible for that product. These roles sit at the intersection of technology, business, and design and serve as the liaison between the team creating the product and other members of the company.

- Lead the trajectory of a product from beginning to end
- Coordinate engineers and designers
- Act as liaison with other teams in the organization, such as marketing
- Manage timelines and deadlines

- Product Manager Intern, HealthyPAI
- Product Intern, Mobius Materials

Skills: Extensive legal knowledge | Research, writing | Logical analysis | Leadership project management

IT SERVICES, IT TECHNICIAN

IT Technicians provide support for customers experiencing difficulties with both hardware and software. IT Technicians often have detailed expertise of the systems and machines for which they are responsible. A customer service mindset is important, since IT Technicians are often embedded as support in larger, non-technical organizations.

- Provide one-on-one assistance to customers experiencing software and hardware problems
- Trouble-shoot problems with technology
- Create documentation for non-technical staff

- IT Intern, Shanghai Commercial Bank
- IT Americas Intern, Siemens

Skills: Extensive legal knowledge | Research, writing | Logical analysis | Leadership project management

USER EXPERIENCE, USER EXPERIENCE DESIGNER

User experience designers are responsible for determining and guiding how a product (such as a website or service) feels to the user. They may conduct user tests or interviews to determine how a user engages with the product and then make design-oriented, big-picture recommendations or alterations based on their findings.

- Provide user-oriented perspective to a team of engineers
- Produce storyboards and wireframes of the workflow of a product or service
- Engage directly with users and focus groups

- UI/UX Metcalf Intern, Effective to Great Education
- UX Design Summer Intern, Ancestry

Skills: Extensive legal knowledge | Research, writing | Logical analysis | Leadership project management

BUILDING EXPERIENCE FOR CAREERS IN COMPUTER SCIENCE

Career Advancement offers a number of events and resources to help prepare you for a career in technology:

EXPLORE

Fall Quarter

- September 30 | Applications Open for Winter Break STEM Treks to Paris and Lyon, France; Washington, D.C; and Santa Clara, CA
- September 30 | Google Info Session & Resume Workshop
- October 1 | Meet the UChicago Champions Employer Networking
- October 2 | UChicago Career & Internship Fair
- October 10 | Quantum Employer Spotlight: Quantinuum
- October 17 | Fireside Chat with Dean of Physical Sciences Division, Ka Yee Lee
- October 21 | Alumni in Mathematics Career Panel and Networking Night
- October 22 | National Lab Application Bootcamp
- October 30 | EPIC Climate Frontiers Career Fair
- November 19 | Google Technical Interview Prep Session
- November 20 | Quantum Employer Spotlight: Rigetti
- November 21 | Trek to Argonne National Lab

Winter Quarter

- December 14-January 12 | Winter Tech Showcase
- January 6 | Applications Open for Spring Break STEM Treks to Dublin, Ireland; Los Angeles, CA; and New York, NY
- January 14 | STEM Recruiting Night
- January 30 | Careers in STEM Office Hours
- February 15-16 | UChicago Hackathon

Spring Quarter

- April 2 | Undergraduate Research Panel
- April 24-25 | Quantum Recruiting Forum
- May 6 | Summer Success Series: Preparing for Research Roles
- May 13 | Summer Success Series: Preparing for Industry Internships

REPRESENTATIVE EMPLOYERS

These employers actively recruit UChicago students for technical roles!

Work with Career Advancement to stay current on recruiting timelines

Google
Lyft
Epic
Tesla
Amazon

Civis Analytics
The Climate Corporation
Lumere
Capgemini
Houzz

Goldman Sachs
Kleiner Perkins
NowPow
Uptake
IMC

Facebook University
Google Engineering Practicum
Explore Microsoft Program
EA (Electronic Arts) Pathfinder



Chelsea Egbarin, AB'24

Major: Computer Science, English Language and Literature

Involvement: Booth RA, IT Staff

Post-Graduation Plans: Software Engineer, Reddit



Taran Panjabi, AB'23

Major: Computer Science

Involvement: Maroon Capital, InterHouse Council, Cricket Club

Post-Graduation Plans: Product Manager, WalletHub