



INVESTIN
THE ULTIMATE WORK EXPERIENCE

The Young **Computer Scientist** Summer Experience

2025

Ages 15-18
London | UCL Campus

Join us for the ultimate
work experience in
computer science this
summer in London.

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Over the course of 2 weeks, students will step into the shoes of a computer scientist through a range of immersive career simulations and exclusive professional site visits.

This is a unique opportunity to work alongside top programmers, gain hands-on experience to boost university and job applications and experience life on-campus at a world-renowned university, University College London.

Ages
15-18

Location
London, UCL Campus

Length
1 week or 2 weeks

Start Date
28th July 2025



Programme Highlights

Create a working alpha in a 2-day game jam with game design professionals

Assemble and programme an advanced line sensing robot using Scratch and Python

Discover exciting applications of computer science on a visit to a state of the art motion capture studio

Receive expert career coaching, compete in a fintech assessment with invaluable feedback from industry experts

Gain a personalised certificate, industry reference letter & UCAS points for a Level 3 Award in Work Experience

Learn from and network with top software engineers, indie game devs, cyber experts & robotics professionals

"The computer science course was really interesting, met and networked with a lot of professionals and learnt a lot."

*Student, the Young Computer Scientist
Summer Experience 2024*

"The course featured a diverse range of topics ranging from software engineering, AI (incl. machine learning), and cyber security - with interesting challenges for every topic. Having completed the course, I feel that I have come away much more knowledgeable about computer science as a field and more informed about potential career paths."

*Student, the Young Computer Scientist
Summer Experience 2021*

Week 1

Sample Summer Experience Timetable

☐ Residential Package ☐ Programme Content ☒ Premium Content

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|--|--|--|--|---|
| 07:30 - 09:30 | Residential students arrive & check-in | Breakfast | | | | |
| 10:00 - 10:30 | | Travel to venue | | | | |
| 10:30 - 13:00 | | Enter the Summer Experience Programme welcome & networking with peers | User UI/UX & Front-End Engineering Design a website using the industry standard software - Figma | Back End Engineering Uncovering algorithms and debugging code | Robotics Assemble and programme a working obstacle avoidance robot | Cybersecurity Discover key offensive and defensive challenges in the world of cybersecurity |
| 13:00 - 14:00 | | Lunch Break | | | | |
| 14:00 - 17:00 | | The World of a Computer Scientist Discover the foundations of computer science | The App Development Work in teams to devise your own tech startup app designs | Reinforcement Learning Explore the world of reinforcement learning in AI | Future of Finance Explore the future of finance & AI | Enter the world of the enigma machine Explore the world of encryption and ceaser cyphers |
| 17:00 - 17:30 | | Travel to accommodation | | | | |
| 17:30 - 19:30 | | Dinner & Break | | | | |
| 19:30 - 22:00 | Induction & icebreakers | Movie night | Board game café | Sports & games night | Wellness evening | Quiz night |
| 23:00 | Lights Out | | | | | |
| | | | | 17:30 - 21:00 | Private cinema hire/Arcade | |

| Weekend (Premium) | | Weekend (Residential) | |
|--|---|---------------------------------------|-----------------------------------|
| Saturday | Sunday | Saturday | Sunday |
| Breakfast | | Breakfast | |
| Immersive strategy game & workshop | Professional development coaching sessions | Week 1 Residential Students Check-Out | Break - Free time |
| Lunch Break | | | Break - Free time |
| Psychometric testing & personality profiling | Expert university admissions & recruitment coaching | | Lunch Break |
| Dinner & Break | | | London walking tour |
| Scavenger hunt | Crafts night | | Sports day at central London park |
| Lights Out | | | Dinner & Break |
| | | | Scavenger hunt |
| | | | Crafts night |
| | | | Lights Out |

WEEKEND - NON-RESIDENTIAL

Break - No Programmes

Week 2

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------------|--|---|---|---|---|--|
| 07:30 - 09:30 | Breakfast | | | | | |
| 10:00 - 10:30 | Travel to venue | | | | | 2-Week Residential students check-out & depart |
| 10:30 - 13:00 | <div>Enter the Mo-Cap Studio</div> <div>Visit a state of the art motion capture studio in London</div> | <div>Enter the Game Jam Part I</div> <div>Making a video game, UI/UX, level design, build and test your own gam</div> | <div>Enter the Game Jam Part II</div> <div>Making a video game, UI/UX, level design, build and test your own game</div> | <div>Enter the Fintech Forum</div> <div>App creation and pitching within the financial technology space</div> | <div>Career Coaching</div> <div>Expert coaching on breaking into computer science, gaming or robotics</div> | |
| 13:00 - 14:00 | Lunch Break | | | | | |
| 14:00 - 17:00 | <div>3D Modelling with Blender</div> <div>Undertake a Blender masterclass, a 3D modelling software</div> | Continued | Continued | Continued | <div>Awards & Graduation Ceremony</div> <div>Closing speeches & certificates</div> | |
| 17:00 - 17:30 | Travel to accommodation | | | | | |
| 17:30 - 19:30 | Dinner & Break | | | | | |
| 19:30 - 22:00 | Film night | Sports & games night | Wellness evening | Karaoke night | Prom | |
| 23:00 | Lights Out | | | | | |
| | | | 17:30 - 21:00 | Gala dinner with professionals | | |

Exact start/end times of each day will vary. Students will receive their personalised timetables with specific locations and venues, as well as a finalised social programme schedule, closer to the programme start date.

