

Hayk Khachatryan

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UCL Theoretical Physics graduate (First Class Honors); Self taught intermediate programmer (Python, Mathematica); Freelance Web Developer

EDUCATION

Theoretical Physics at [University College London](#)

2016-09 — 2019-06

Achieved a degree with First Class Honors

- Practical Mathematics and Computing I & II (Python and Mathematica): 84% & 86%
 - Mathematical Methods II & III: 91% & 91%
 - Climate & Energy: 83%
 - Representative for 30 Physics students
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EMPLOYMENT

Software Engineering Intern at [Unicomp](#)

2018-07 — 2018-09

Designed and developed a quantum computer simulator in C++. Lectured on quantum computation.

C++ - OOP - Quantum Computing - Communication - Problem solving

Freelance Web Development

2015-01 — 2018-04

Developed full stack, responsive websites for my clients.

- JekyllNow, Wordpress
- Bootstrap, Polymer
- LAMP stacks

HTML 5 - CSS3 / SASS - Flexbox - Handlebars - JS - PHP - Node.js - gulp.js - Flask

Sales Account Manager at [OptionRally](#) in Limassol, Cyprus

2016-03 — 2016-05

Addressed clients' issues with their finances and resolved their concerns with investments. Improved my communication skills through the high pressure environment of finance sales.

CRM - Windows - VOIP - Communication

Independent Social Media Consultant

2015-02 — 2015-08

Launched social media presences and designed advertising campaigns that increased my clients' following by over 60%.

Facebook - Instagram

IT Assistant at [ZIGZAG](#) in Yerevan, Armenia

2013-07

Diagnosed and troubleshooted networking and technical issues at the IT department of an office of 50 employees.

Problem solving - Logical thinking

Intern Mechanic at [Vitesse](#) in Yerevan, Armenia

2011-07

Repaired and serviced ATVs, jetskis, and snowmobiles at the mechanical department of the BRP Service Center.

Problem solving

PROJECTS

Creator at chat.hayk.io

2018-07

Flask & SocketIO based webapp that connects with a Slack workspace and carries messages between the two (hayk (owner) talks from Slack, user talks from webapp).

Python - Flask - HTML - CSS - Javascript - SocketIO - heroku

Molecular Dynamics Researcher at [Can Hot Water Freeze Faster Than Cold Water?](#)

2019-01 — 2019-03

A university research project tasked with investigating the effects of impurities and differing starting temperatures on the freezing of water.

- Designed multiple molecular dynamics simulations in LAMMPS investigating the effects of impurities on the freezing of water.
- Analyzed the data, comparing to data gathered by the experimental team.
- Visualized our results using VMD and Jupyter.
- Assembled our research in LaTeX.
- Transcribed minutes for some meetings.
- Chaired some meetings.

MD simulations - LAMMPS - VMD - LaTeX - Communication - Leadership - Python - Jupyter

Systems Engineer and Liaison Officer at **Intergrated Engineering Challenge #2: Global Health**

2015-11 — 2015-12

A university project where a multi-disciplinary team of specialist engineers formulate, design and verify an effective strategy for the production and distribution (and monitoring) of a vaccine to combat a Tuberculosis Pandemic in Sub Saharan Africa.

- Designed and developed a control system for the temperature, pH, and stirring of a bio-reactor.
- Developed in C and Processing on a Launchpad microprocessor.
- Liaised with engineers from other disciplines on specifications and requirements.

C - Processing - Communication - Leadership

SPEAKING**Delegate of Iran** at **Mediterranean Model United Nations** in Nicosia, Cyprus

2015-02

A simulation of the United Nations, done by students from various schools as they discuss and try to find solutions to current world problems.

- Debated and discussed issues in a formal UN-like setting.
- Created resolutions to be debated.

Communication - Debating - Public speaking - Research

Member of Medical Ethics committee at **Youth Voice** in Nicosia, Cyprus

2014-04

An annual weekend conference where young people between the ages of 15-19 from schools convene to discuss and express themselves on current affairs.

- Debated and discussed various ethical issues in the medical field.

Communication - Debating - Public speaking - Research

Speaker at **Science Rocks** in Limassol, Cyprus

2013-03

'Does anything touch?'

- Gave a speech on how no particles ever really touch as a consequence of the electromagnetic force.

Communication - Debating - Public speaking

SERVICE**Technical Consultant** at **Limassol Phoenician Leo's Charity Club**

2014-09 — 2015-07

Helped raise €5365 over two charity events (October - December 2014)

- Social media management
- Graphic design

Facebook - Photoshop - Delegation - Communication

SKILLS

Web (intermediate)	HTML 5 CSS 3 / SASS Polymer Google Analytics
Programming (intermediate)	Python Mathematica Git
Programming (beginner)	C++ Java C Haskell Javascript
Cloud (intermediate)	DigitalOcean
Software (advanced)	Photoshop Lightroom Final Cut Pro spreadsheets
Languages (native)	English Armenian