

# TARIQ PATHAN

TARIQPATHAN.GITHUB.IO

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## SELF-TAUGHT SOFTWARE ENGINEER

Analytical and data-oriented engineer with a history of taking the initiative to learn new technologies. as experience developing an online product platform.

## KEY ACCOMPLISHMENTS

- Created **4 web-apps** under self-instruction using over 5+ languages and frameworks, published on Heroku
- Introducing a new digital marketing strategy leveraging YouTube and podcasts projected to exponentially increase web traffic and inquiries from a specific targeted audience

## PROFESSIONAL EXPERIENCE

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**UNIQUE SIXTH FORM**—London, UK  
*Private sixth form college.*

Feb. 2015 – Current

**Physics Subject Co-ordinator.** Developing resources, managing and training staff, researching and implementing new learning strategies to improve student performance.

- Collated and compared information from previous exams and specifications to determine academic demands which formed the basis of all subject resources, **saving 50+ hours in staff time**
- Formulated a testing strategy used to monitor student performance which saw **academic grades improve by 25%**.

**OAK TUITION**—London, UK  
*Personalised education specialising in Maths and Science.*

Feb. 2016 – Aug. 2018

**Co-Founder.** Managing overall company operations including finance and accounting, scheduling, marketing, product development, and client relationship management.

- Ideated and implemented a risk mitigation algorithm to assess student outcomes which enables the company to **grow revenues up 200%+** compared to the previous year
- Conduct outreach and pitched to **5 prospective investors** through advisor network to secure new sources of funding
- Managed team of **2 web designers** to build a new product website on a lean budget and in a timely manner

**Freelance Electronics Technician**—London, UK  
*Diagnosing and repairing electronic hardware.*

June 2007 – Current

- **Self-taught computer technician** having built and troubleshot 50+ desktops, monitors, laptops, and motherboards.
- Implemented advanced techniques such as soldering to **complete 10+ advanced repairs** such as changing backlights, capacitors and micro switches, all under self-instruction.

## PROGRAMMING EXPERIENCE

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**Upgraded Finance** – <https://upgraded-finance.herokuapp.com>

Flask web-app with a PostgreSQL database, retrieving stock data from IEX API

May. 2020

**Flack** – <https://flack-messaging-app.herokuapp.com>

Instant messaging web-app created using Flask, SocketIO and a JavaScript front-end

Feb. 2020

## EDUCATION

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**Introduction to Computer Science (CS50), Programming with Python and JavaScript (CS50 Web)**

Harvard University, Online

Oct. 2018 – Apr. 2020

- Using C, initially covered data structures, memory allocation, later abstracting up to Python, SQL, JavaScript.

**MSc Biochemical Engineering, Distinction**

UCL—London, UK

Dec. 2015

- Led a team of 6 to first place in pilot plant programme using Dynamic Light Scattering and Nanoparticle analysis

**BSc Biochemistry, Upper Second-Class with Honours**

University of Warwick—Coventry, UK

Dec. 2012