

# Charlie (*Lily*) Bradshaw

Cheltenham & Canterbury  
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## EXPERIENCE

### SOC Analyst & Full-Stack Developer

#### Portfolio Experience:

- Conducted vulnerability assessments & performed penetration tests on HackTheBox and consenting peers using the high-level assessment methodology.
- Experience using PowerShell in conjunction with Bash and Python scripting to:
  - Automate the reconnaissance phases of security assessments and pen tests
- Implemented Vulnerability Management Functions on sandbox networks:
  - Discover, Prioritize, Access, Report, Remediate, Verify
- Back-end REST API Development with Node.JS and Express
- Front-end UI Development with HTML, Java & frameworks such as ReactJS
- Created Proof-of-Concept Malware such as: Keylogger & Ransomware for security awareness purposes.
- Implementation and development of Authentication & Integrity monitoring software
  - Dissection and understanding of networking protocols, third party & my own
  - Strong experience with cloud software services & multi-platform development



Website: [FabulousLily.com](https://FabulousLily.com)

GitHub: [Github.com/Original-Lily](https://Github.com/Original-Lily)



#### Workplace Experience:

06/2018 – 08/2018

#### Chosen Hill School - Technical Support & Management Intern

- Conducted & collaborated with staff on security audits and vulnerability assessments within the school's network infrastructure, identifying and mitigating potential risks.
- Responded promptly to IT related incidents/ problems, troubleshooting, and finding satisfactory resolutions, regarding both hardware and software issues.
- Maintained an up-to-date inventory of hardware and software on protected devices, ensuring patches and updates remained in line with advancing standards.
- Collaborated with external cybersecurity agencies such as ImperoSoftware in order to source and deploy security software or plugins effectively.

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## EDUCATION

### Chosen Hill School

#### A-Levels:

A\* - ICT

A - Computer Science

B - Ext. Project Qualification

C - Mathematics

#### GCSEs:

9 - Computer Science

8 - Creative iMedia

7 - Further Mathematics

6 - Physics

6 - Biology

6 - Chemistry

4 - English Literature

4 - English Language

### University of Kent – Stage One

Object Oriented Programming  
Programming in Java & Python

Cloud & Network Computing  
Virtual machines  
Docker Containers & Network  
Engineering in Bash

Databases  
Development of Database  
Management Systems & Zero-trust  
access models

Mathematics & Algorithms  
Using complex  
Mathematical concepts to  
produce solutions to unique  
problems

### University of Kent – Stage Two

Artificial Intelligence  
Creation & concepts of Ai  
and machine learning algorithms

Cyber Security  
Understanding & awareness  
of cyber security threats and  
concepts & modern cryptography

Software & Web Development  
Creation of software with  
a strong focus on enterprise level  
Application methodologies and  
Front facing API utilization

Computer Systems  
Deeper understanding of computer  
technologies, from logic gates  
to machine code & assembly

## SKILLS & INTERESTS

### University Society & Hobby Involvement

- **Esports Society**
  - Competitive and social player for high level video game tournaments
  - Specializing skills such as fast-paced teamwork, under pressure
- **Cyber Security Society (in collaboration with the National Cyber Security Centre)**
  - Experience taking part in events including cyber security outreach & education as well as CTF competitions
  - Demonstrating outside the box thinking and problem solving
  - Extra-curricular security awareness & experience
- **Swim Society**
  - Frequently attends socials and weekly practice
  - Consistent training and teamwork for events on a deadline
  - Peer to peer feedback and communication skills
- **Intermediate German Language Skills**