

Hello! I'm Alex. I am currently doing a postgraduate degree in Information Security. I have full-stack software development experience and I am interested in computer security and machine learning research - specifically where the two disciplines intersect. In my spare time, I like to stay fit, so running and going to the gym are things I do a lot.

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## </> SKILLS

Frontend	HTML CSS Sass React Gatsby
Backend	SQL GraphQL REST OAuth Linux/Unix SQL Server PostgreSQL
Cloud	AWS Azure Docker Kubernetes DigitalOcean CloudFormation
Programming	Java C#/.NET Python JavaScript TypeScript Go C++

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## 🏢 EMPLOYMENT

### **Junior Software Engineer (Placement), [Avco Systems Ltd](#)**

2018-07 — 2019-07

My role within the company encompassed a wide range of activities and duties, from writing code for new products in a variety of languages, testing, code review and taking a proactive role in deploying and maintaining existing software. I also helped support a B2B project that I was working on, and ensuring that requested changes were made quickly but without compromising quality.

- Learned a lot about deploying to AWS, and using an 'infrastructure-as-code' approach to enable rapid release
- I was involved with a new project and gained valuable insight into the specification of software requirements and system architecture design
- Took charge of updating an existing project to incorporate new important security updates and ensure that it was robust
- An early adopter of TypeScript and React (stateless components) that facilitated use in other projects to improve type safety and general software stability

### **Data Analyst Intern, [iris Worldwide](#)**

2017-06

Understanding the vast ocean of data relating to how customers interact with brands is very important, and undertaking an internship there offered me insight into what happens 'behind the scenes'.

- Fixed issues with an important data aggregation process with Instagram/Facebook
  - Used my Python skill to speed up the processing and transformation pipeline, as well as improving the existing code to make it more maintainable and documented throughout
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## 🎓 EDUCATION

### **MSc Information Security, University of Surrey**

2020-09 — Present

COMM058 - Architectural Thinking for Security COMM044 - Symmetric Cryptography COMM045 - Asymmetric Cryptography  
COMM037 - Information Security Management COMM048 - Information and Network Security COMM034 - Cloud Computing (AWS/GCP)  
COMM047 - Secure Systems and Applications COMM046 - Multimedia Security and Digital Forensics

### **BSc (Hons) Computer Science, University of Surrey**

2016-09 — 2020-05

### **Sixth Form, Queen Mary's Grammar School**

2014-09 — 2016-06

A level Computing - A A level Mathematics - B A level Physics - C AS level English Language & Literature - B

### **Secondary School, Cannock Chase High School**

2009-09 — 2014-06

6 A\*s, 3As, 2Bs including English and Maths

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## ✍️ WRITING

### **Machine learning-driven detection and classification of software vulnerabilities in source code, Alex Potter, University of Surrey**

2020

My undergraduate thesis about optimising ML classification of software source code to speed up code analysis and enable developers to check code for security issues.

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## 🏆 RECOGNITION

### **The IBM Prize for Best Final Year Performance, University of Surrey, IBM**

2020

### **British Informatics Olympiad - First Round, British Informatics Olympiad**

2015

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***Fitness***  
Current

***Music***  
Current