

# Alaric John Roydon Nightingale

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Home address:

On request

Term-time address: (until July 2005)

Clare College  
The Colony  
Chesterton Lane  
Cambridge  
CB4 3AA

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## Auxiliary Information

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Date of Birth 23<sup>rd</sup> June 1984  
Nationality British  
Gender Male

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## Education

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### 2002 – present

Clare College, Cambridge University; reading Computer Science.

Part II	1 [predicted]
Part IB	2.1
Part IA	2.2

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### 1995 – 2002

Simon Langton Grammar School for Boys, Canterbury.

#### A-levels:

Mathematics	A
Physics	A
Further Mathematics	C
Product Design	C

#### G.C.S.Es:

Mathematics (A\*), Double-award science (A\*,A\*), English Literature (A), Graphic Design (A), French (A), Art (B), German (B), English Language (B).

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### 2001

A-level Art from an evening class at Canterbury Further Education College.

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## Experience

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### Software Engineer Internship — RealVNC

Summer 2004 (12 weeks)

Worked in a small team developing a set of tools for recording and playback of Virtual Networked Computing (VNC) sessions. A protocol which allows you to remotely view and control a computer.

The development was largely in platform independent C++ with some Java and PHP for the final implementation of control and playback within web-browsers. I learnt a variety of new skills for the project such as libxml and the VNC protocol for the implementation and  $\LaTeX$  for the required technical documentation.

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## Skills

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- Java
- C, C++
- PHP
- Misc. technologies: SQL, XML, Perl, ML,  $\LaTeX$ , VNC, JCE, libxml

- Webdesign: (X)HTML, CSS, SVG
- Experience using Visual Studio and Eclipse development environments
- Extensive experience of Mac OS X, Microsoft Windows and Linux. Familiarity with OpenBSD, Mac OS 'classic' and DEC UNIX operating systems

## Activities

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### **Union of Clare Students Computer Representative** **2003-present**

■ Gave introductory talks to arriving students. Represent student interests at regular meetings with College authorities about computing facilities and network charges.

### **Union of Clare Students Webmaster** **2003-present**

■ Designed and implemented an updated (dynamically generated) website. Jointly proposed specification for a new Debian Linux based server, built the system and administer it.

### **Clare Mayball Computing Consultancy** **2004, 2005**

■ Ticket issuing and verification scheme designed to reduce queue waiting times by approximately 75%. Also in 2005 the website for advertising the Ball and booking tickets.

### **Clare College Badminton Club** **2003-present**

■ Club President and First team captain for 2004/5.

## Academic/Industrial Interests

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Computer and Information Security remains my foremost interest in computer science. I've read some of the major texts in the area, attend public seminars from the university security research group in Cambridge and occasionally get time to read academic papers too.

My final year project and dissertation is based in security. The project is to develop a peer to peer messaging system with introductions derived from social peers. This allows a scheme of automatic certification of users' key-material without the complexity of a full public key infrastructure of Certification Authorities and yet still with a reasonable level of security. The project is in Java making heavy use of the Java Cryptography Extension.

## References

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References are available on request.