

Matthew Consterdine

M.Eng. Computer Scientist

consto.uk 

mattconsto  

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Available on request 

Summary

- ◆ Bath-based, enthusiastic, team focused computer scientist who is aiming to design novel technology

Skills

- ◆ Creative writer and communicator, with solid mathematical background
- ◆ Know data structures and algorithms
- ◆ Experienced using functional and object-oriented / MVC programming
- ◆ Written ARM microcontroller ASM
- ◆ Proficient with Docker, Puppet, SSH, Linux and microservices sysadmin
- ◆ Designed and evolved databases
- ◆ Use Eclipse IDE, L^AT_EX, Microsoft Office, Photoshop, and Sublime Text
- ◆ Employ Agile methodology and Git

Languages

1. Java, JavaScript, Perl5, PHP8, SQL
2. C, C++, C#, Excel, HTML5, RegExp
3. Bash, SCSS, Python3, Rust, Scheme
4. Go, MATLAB, OCaml, VB.NET Core

Projects

- ◆ Run Jekyll-powered blog, consto.uk
- ◆ Uploaded and sold 3D Unity games on itch.io, thousands of downloads
- ◆ Developed an open-source OpenCL GPU-accelerated fractal explorer
- ◆ Built a D3.js BTC blockchain tracer

Interests

- ◆ Keen photographer who delights in exploring the world, wild swimming, cycling, and running half marathons
- ◆ Thrice entered Southampton Game Jam and competed in ACM ICPC
- ◆ D&D, tabletop games, video games

Awards

- ◆ Bloomberg CodeCon finalist, 2018
- ◆ BT Cyber Security CTF winner, 2017
- ◆ Zepler Scholarship Scheme, 2014
- ◆ Full Clean UK Driving License, 2013
- ◆ Bronze Duke of Edinburgh, 2012

 References available on request

Experience

◆ Netcraft, Computer Scientist, 2018–present

- ▶ Created AngularJS, Mojolicious / Perl5, and PHP8 anti-phishing tools
- ▶ Focused on optimising performance, reliability, and Amazon AWS cost
- ▶ Documented issues, reviewed colleague's edits, ran CI / CD pipelines
- ▶ Helped develop Netcraft Go and phishing kit recruitment challenges
- ▶ Trained and improved Keras / VW machine learning website classifiers
- ▶ Completed ad hoc research on Netcraft's big databases, using MySQL
- ▶ Safely vulnerability tested clients systems, producing formal reports
- ▶ Analysed obfuscated PHP phishing kits, identifying credential stores
- ▶ Edited and published articles for Netcraft's Hugo-powered websites

◆ Meetup, Local Group Organiser, 2020–present

- ▶ Organised and led in-person / Zoom events for thousand-strong group

◆ BathTub Orchestra, Flautist and Editor, 2019–present

- ▶ Performed in and recorded concerts, uploaded to Facebook / YouTube

◆ Winchester Innovation, Web Dev. Intern, summer 2017

- ▶ Achieved a remote web dev. internship in React and Python3 APIs
- ▶ Updated full-stack Raspberry Pi applications, automated deployment
- ▶ Used GStreamer to power web-based Internet-of-Things microscope
- ▶ Reinforced communication, documentation, and time management

◆ Previous Experience

- ▶ Blue Diamond, summer 2016: Handled sales, delivery, and assembly
- ▶ Bulldog Technology, 2012–2013: Sold computers, assisted repairs
- ▶ Sue Ryder, 2010: Volunteered for local charity shop, served customers

Education

◆ University of Southampton, Computer Science, 2014–2018

- ▶ Studied M.Eng. Computer Science, 68% average, a top 2:1 degree
- 1st Year.** Algorithmics, Computer Systems, Data Management, Foundations of Computer Science, GUIs, Modelling, Testing / TDD
- 2nd Year.** Computer Hardware, **Distributed Systems**, Intelligent Systems, Interaction Design, PL Concepts, Software Engineering
- 3rd Year.** **Cyber Security**, Dissertation, Engineering Management and Law, Game Design, Machine Learning / AI, Secure Systems
- 4th Year.** Automated Code Gen, **Computational Finance**, Cryptography, Group Dissertation, Intelligent Agents, Open Data, Web Architecture
- Dissertations.** Lect.Me: A Real-Time eLearning Platform, and OneM2M: Simulating a Multi-Vendor Internet-of-Things
- ▶ Active member of Board Game, Folk Music, and Quidditch societies

◆ Sixth Form College, 2012–2014

- ▶ **A* Electronics**, A Maths, A Physics, B Fine Art (AS), C Chemistry
- ▶ Prototyped and playtested C++ SFML games in Game Dev. club

◆ Secondary School, 2007–2012

- ▶ A* Computing, A* Maths, A* Biology, A* Chemistry, A* Physics, A Art, A Geography, A Statistics, B English Lang., B English Lit., C Spanish