David W. Arnold

☐ +44 (0) 7799 316 125 | ✉ d.w.arnold.gm@gmail.com | ⌂ https://deltawhiskeyalpha.com | ⬚ d-w-arnold | in david-w-arnold | ⚲ d_w_arnold

I'm a computer science graduate with a first class honours degree from the University of Kent. I'm skilled in Java, C, C++, Python & Erlang, as well as full-stack development with: JavaScript, React, Node.js, TypeScript, Docker, PHP, MySQL, HTML, CSS & SCSS. I'm eager to learn new skills and take on a role where I can contribute to real-world projects. I am highly motivated, organised, reliable and work well both independently and as part of a team.

Computing

OS's   Mac OS, iOS, ⊞ Windows 7/10, 🐧 Ubuntu

Skills   >_ UNIX CLI, git Git, </> Java, </> C, </> C++, </> Python, </> JavaScript (w/ React, jQuery, AJAX & Node.js), </> TypeScript, ◈ Docker, </> PHP, 🗄 MySQL, ⟨⟩ HTML, ⟨⟩ CSS, ⟨⟩ SCSS, </> Shell, </> Erlang, </> Rust, </> R, AppleScript, ⟨⟩ Markdown, ⟨⟩ LaTeX, ◈ JetBrains IDEs, 🔒 Cryptography, 📈 Mathematics

Projects   ☐ My First Dockerised React Website (React, TypeScript, Docker, Docker-Compose, PHP, HTML & SCSS)
☐ IoT Admin Web App (PHP, HTML, CSS & MySQL) | ☐ My First Website (PHP, HTML, CSS & jQuery)
☐ My First OpenAPI (Java, OpenAPI & Docker-Compose) | ☐ IoT Central Server (Java & JDBC)
☐ Ciphertext Decryption (Java) | ☐ Git Bisect (Java & Maven) | ☐ CSV to TXT Converter (Java)
☐ Computer Networks: Simple Data-Link Protocol (Java) | ☐ Sudoku Solver (Java & JavaFX)
☐ IoT BLE & Motion Detection Device (C++) | ☐ C Test Bench (C) | ☐ Sudoku Solver (Python)
☐ Local News Web Crawler (Python) | ☐ Gambit Cipher Quiz (C++, Python & Erlang)
☐ Learn: Git, GitHub and JetBrains IDEs (Markdown) (Talks aimed at Year 1 and 2 undergraduates)

Events   🌐 2017 Cisco University Challenge

Education

🏛 **University of Kent**   *Canterbury, U.K.*

BSc Computer Science with a Year in Industry - **First Class Honours**   *Sep. 2016 - Jun. 2020*

- Year 3: **82%**
  - 📖 **Research Project** - "Quantum Cryptography: Security for the Post-Quantum world": **1st class**
    - ⋆ Awarded: Most Exciting Idea for Global Outreach - Sponsored by **TMLEP**
  - Computer Networks and Communication (Java): **88%**
  - Computer Security and Cryptography (Java): **92%**
  - Internet of Things (C++, Java, PHP, MySQL, HTML & CSS): **70%**
  - Programming Language Implementation (OCaml & C): **88%**
  - Programming Languages: Application and Design (Java, Rust & Haskell): **88%**
  - (Masters) Data Mining and Knowledge Discovery (R): **82%**
- Year 2: **78%**
  - Algorithms, Correctness and Efficiency (Java): **80%**
  - Web Development (JavaScript, jQuery, AJAX, PHP, HTML & CSS): **95%**
  - Functional and Concurrent Programming (Erlang & Haskell): **94%**
- Year 1: **86%**
  - Introduction to Object-Orientated Programming (Java): **97%**
  - Database and the Web (JavaScript, PHP, MySQL, HTML & CSS): **86%**
  - Further Object-Orientated Programming (Java): **94%**

🏛 **Newberry College**   *Newberry, SC, U.S.A.*

Mathematics Major   *Jan. 2015 - Oct. 2015*

- I was offered **100%** scholarship (golf and academic) to play for the Newberry College NCAA (National Collegiate Athletic Association) golf team while studying as a Mathematics Major.
- My GPA (Grade Point Average) for the time I was there was **3.80/4.00** (**A**-Grade).

🏛 **The Open University**   *Milton Keynes, U.K.*

Certificate of Higher Education (Open) - Level 4   *Jun. 2012 - Jul. 2014*

- I studied (part-time) for two years: Computing, Psychology and Mathematics.
- Computing: Overall Continuous Assessment Score: **75%**, Overall Examinable Score: **89%**

The Harvey Grammar School *Folkestone, U.K.*

GCSE (General Certificate of Secondary Education) *Sep. 2007 - Jul. 2012*

- (**A**-Grade): Mathematics, Science, Additional Science, English, Design & Technology: Resistant Materials, BTEC Level 2 Certificate in Sport (Distinction*)
- (**B**-Grade): Physical Education, English Literature, Geography, Media Studies
- (**C**-Grade): Business Studies, Statistics

Experience

Red Bull Technology / Red Bull Racing *Milton Keynes, U.K.*

IT Student Placement *Jun. 2018 - Jun. 2019*

- Responsible for supporting, maintaining and optimising internal systems.
- Expected to work well both individually and as part of a team.
- Main accountabilities during role:
    - Support and manage critical business applications and tools
    - Communication, building relationships and working with people across teams
    - Technical approach to problem solving
    - Participation in project work
    - Identify and propose opportunities to improve processes and systems

IT-Alan *Burmarsh, Kent, U.K.*

Assistant Engineer *Jun. 2017 - Sep. 2017*

- Computer repair & maintenance with a Microsoft Certified Systems Engineer.

Other UK Driving Licence; Ex-Professional Golfer

Hobbies

🌲 Golf

- Before I became a computer scientist, I was a golfer. Growing up my grandfather lived near a golf club and bought me my first set of golf clubs for my 7th birthday. By the age of 19, I had brought my golfing handicap down from 28 to -1. Over the years I represented Kent County Golf Union in various fixtures for their various teams: Kent Under 13's, Under 14's, Under 16's (Captain), Under 18's.
- In January 2016, I relinquished my amateur status and turned professional (aged 19) joining the EuroPro UK Golf Tour for the 2016 season. In August 2016, I hung up my golf clubs to turn my attention to undergraduate study in Computer Science at the University of Kent. Golf remains a passion of mine, and will remain a lifetime hobby.

🏁 Motorsport

- Motorsport is a strong passion of mine. I have a broad knowledge of various disciplines of motor racing, and I enjoy learning of new technological developments to make cars faster, safer and more efficient at speed. I enjoy the thrill of driving on track, having invested in multiple track day sessions with tuition from professional racing drivers to better my skill set.

💓 Running

- Running used to be a big part of my regular training routine for golf. When I can I find it helps take things off ones mind and keep the body healthy. I participated in a half marathon in September 2016 and hope to do more half and full marathons in the future. I especially enjoy long runs along the coast.

References

References on request.