

David W. Arnold

🏠 <https://deltawhiskeyalpha.com> | 💻 d-w-arnold | 📧 david-w-arnold | 🔍 d_w_arnold

I'm a software engineer and computer science graduate with a first-class honours degree from the University of Kent. I'm eager to learn new skills and take on roles 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 🍏 macOS & iOS, 🐧 Ubuntu & Amazon Linux, 🪟 Windows 7/10

Skills >_ Unix CLI, Git, AWS, JetBrains IDEs, `</>` Java, `</>` Python (w/ Django), `</>` Shell, Docker, `</>` JavaScript (w/ React, TypeScript, jQuery, AJAX & Node.js), SQL, `</>` PHP, HTML, SCSS, `</>` C/C++, `</>` Erlang, 🍏 AppleScript, Markdown, LaTeX, Cryptography, Mathematics

Projects My React Website (React, TypeScript, SCSS & AWS Lambda Python) | Ciphertext Decryption (Java) | Homebrew Auto-Upgrade (Shell) | Java Hackerrank (Java & JUnit) | Git Bisect (Java & Maven) | Lights Controller (Java & JUnit) | Sudoku Solver (Java & JavaFX) | IoT Server (Java & JDBC) | Data-Link Protocol (Java) | Countdown CLI Game (Java) | CSV To TXT Converter (Java) | Sudoku Solver (Python) | News Web Crawler (Python) | IoT BLE Device (C++ Arduino) | My First OpenAPI (Java, OpenAPI & Docker-Compose) | My First Website (PHP, HTML, CSS & jQuery) | CV Visualisation (React, D3.js, TypeScript & SCSS) | Simple Questionnaire (MySQL, PHP & Laravel) | IoT Admin Web App (MySQL, PHP & CSS) | CLI Address Book (C) | TCP Packets (Erlang) | Cipher Quiz (Python, C++ & Erlang) | Open All Images (Shell & AppleScript)

Events 🌐 2017 Cisco University Challenge | Learn: Git, GitHub and JetBrains IDEs (University Talks)

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++ Arduino, Java, JDBC, MySQL, PHP & 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%**

- (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

Peach

London, U.K.

JUNIOR SOFTWARE ENGINEER

Oct. 2020 - Current

Red Bull Technology / Red Bull Racing

Milton Keynes, U.K.

IT STUDENT PLACEMENT

Jun. 2018 - Jun. 2019

- Achievements:
 - Designed and implemented a custom Java program to improve productivity.
 - Project lead the organisation of new starter hardware and software delivery.
 - Volunteered during busy F1 race weekend.
- Responsibilities:
 - Supporting, maintaining and optimising internal systems on an individual and team level.
 - Liaising with personnel across all levels of the business, providing excellent communications to explain procedures in a practical, and user-friendly way.
 - Providing a level-headed and rational approach to problem solving, resulting in time efficient, cost effective, and creative solutions.
 - Acting as first point of contact for business-wide hardware/software issues, including critical incidents.
 - Logging incidents and service requests, as well as managing response times.
 - Identify and propose opportunities to improve existing processes and systems.

 **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.