# 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

**Certs**  ✺ AWS CSA-A | ✺ AWS CCP | </> HackerRank Problem Solving 6-Star

**Skills**  ☁ AWS CDK , </> Python3 (w/ PyCharm, Boto3) , >_ Unix CLI (w/ AWS CLI) , git Git (w/ Bitbucket) , ⬡ Docker (w/ AWS ECR) , </> Shell Scripting , 🗄 MySQL , Markdown , LaTeX , 🔒 Cryptography , 📈 Mathematics

**OS's**  macOS & iOS , Ubuntu & Amazon Linux , ⊞ Windows 7/10

**Projects**  ⭘ My React Website (React, TypeScript, SCSS & AWS Lambda Python3) | ⭘ 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)
⭘ Python HackerRank (Python3 & UT) | ⭘ Sudoku Solver (Python3) | ⭘ News Web Crawler (Python3)
⭘ My First OpenAPI (Java, OpenAPI & Docker-Compose) | ⭘ My First Website (PHP, HTML, CSS & jQuery)
⭘ CV Visualisation (React, D3.js, TypeScript & SCSS) | ⭘ IoT Admin Web App (MySQL, PHP & CSS)
⭘ IoT BLE Device (C++ Arduino) | ⭘ CLI Address Book (C) | ⭘ TCP Packets (Erlang)
⭘ Cipher Quiz (Python3, C++ & Erlang) | ⭘ Open All Images (Shell & AppleScript)

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

## Experience

### 🖥 siHealth                                                                  *Harwell Campus, Didcot, U.K.*
DEVOPS ENGINEER                                                                  *Nov. 2021 - Current*

- Lead the company's transition of cloud resources from Azure to AWS.
- Implemented a new AWS architecture process using AWS CDK (AWS Cloud Development Kit).
- Tech stack:  macOS , ☁ AWS CDK , </> Python3 (w/ PyCharm, Boto3) , >_ Unix CLI (w/ AWS CLI) , git Git (w/ Bitbucket) , ⬡ Docker (w/ AWS ECR) , </> Shell Scripting , 🗄 MySQL

### 🖥 Peach                                                                     *(Remote) - London, U.K.*
JUNIOR SOFTWARE ENGINEER                                                         *Oct. 2020 - Nov. 2021*

- DevOps team member.
- Tech stack:  Linux , git Git , ☁ AWS , </> Python (w/ Django) , ⬡ Docker , 🗄 SQL , ⬡ TeamCity , ⬡ Jenkins

### 🖥 Red Bull Technology / Red Bull Racing                                     *Milton Keynes, U.K.*
IT STUDENT PLACEMENT                                                             *Jun. 2018 - Jun. 2019*

### 👥 Other    UK Driving Licence; Ex-Professional Golfer

## 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%**

- Year 2: **78%** (Java, Erlang, JavaScript, jQuery, AJAX, PHP, HTML, CSS & Haskell)
- Year 1: **86%** (Java, JavaScript, MySQL, PHP, HTML & CSS)

### 🏛 **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

## 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 one's 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.