

# 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 Certified Cloud Practitioner | 📄 HackerRank Problem Solving 6-Star
- 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
- OS's**     🍏 macOS & iOS, 🐧 Ubuntu & Amazon Linux, 🪟 Windows 7/10
- 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)  
📄 Python HackerRank (Python & UT) | 📄 Sudoku Solver (Python) | 📄 News Web Crawler (Python)  
📄 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 (Python, 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 Cloud Development Kit (AWS CDK).
  - Tech stack: 🍏 macOS, 📄 Git, ☁ AWS, 📄 Python3 (w/ PyCharm, AWS CDK, Boto3), ⚙️ Docker, 📄 MySQL
- 🏢 **Peach** *(Remote) - London, U.K.*  
JUNIOR SOFTWARE ENGINEER *Oct. 2020 - Nov. 2021*
- DevOps team member.
  - Tech stack: 🐧 Linux, 📄 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

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### **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

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References on request.