

# David W. Arnold

🏠 <https://deltawhiskeyalpha.com> | 📧 d-w-arnold | 📧 david-w-arnold | 🔍 d\_w\_arnold

I'm a 3rd-year computer science undergraduate (graduating June 2020, predicted grade: 1st) from the University of Kent. I'm skilled in both object-oriented and functional PLs such as Java & Erlang; as well as full stack development with: HTML, CSS & SASS, JavaScript, React, Node.js, TypeScript, PHP and MySQL. I'm eager to learn new skills and take on a role where I can contribute to solving real-world challenges. 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, </> Java, 📄 Git, 📄 HTML, 📄 CSS & SASS, </> JavaScript (w/ React, jQuery, AJAX & Node.js), </> TypeScript, </> PHP, 🗄️ MySQL, 🐳 Docker, </> Shell, </> Erlang, </> C, </> C++, </> Rust, </> Haskell, </> OCaml, </> R, 🍏 AppleScript, 📄 Markdown, 📄 L<sup>A</sup>T<sub>E</sub>X, 🐼 JetBrains IDEs, 🔒 Cryptography, 📈 Mathematics

**Projects** 📄 My First Website (PHP, HTML & CSS, JavaScript (w/ jQuery)) | 📄 CSV to TXT Converter (Java)  
📄 Timestamp Media (AppleScript) | 📄 Ciphertext Decryption (Java)  
📄 IoT BLE & Motion Detection Device (C++) | 📄 IoT Central Server (Java)  
📄 IoT Admin Web App (PHP, HTML & CSS, MySQL)  
📄 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

*Sep. 2016 - Jun. 2020*

- Year 3: (Predicted grade: 1st)
  - **Research Project** Title: "Quantum Cryptography: Security for the Post-Quantum world": (Predicted grade: 1st)
  - Computer Networks and Communication (Java): **(92% Coursework)** (Predicted grade: 1st)
  - Computer Security and Cryptography (Java): **(89% Coursework)** (Predicted grade: 1st)
  - Internet of Things (C++, Java, PHP, HTML, CSS, MySQL): **70%**
  - Programming Language Implementation (OCaml & C): (Predicted grade: 1st)
  - Programming Languages: Application and Design (Java, Rust & Haskell): (Predicted grade: 1st)
  - (Masters) Data Mining and Knowledge Discovery (R): (Predicted grade: 2:1)
- Year 2: **78%**
  - Algorithms, Correctness and Efficiency (Java): **80%**
  - Web Development (HTML, CSS, JavaScript (w/ jQuery, AJAX & JQuery UI), PHP): **95%**
  - Functional and Concurrent Programming (Erlang w/ Haskell): **94%**
- Year 1: **86%**
  - Introduction to Object-Orientated Programming (Java): **97%**
  - Database and the Web (HTML, CSS, JavaScript, MySQL, PHP): **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)

*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

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### **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

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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.