

# David W. Arnold

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I'm a computer science graduate with a first-class honours degree from the University of Kent. I'm skilled in Java, Python, C, C++, & Erlang, as well as full-stack development with: JavaScript, React, TypeScript, Docker, PHP, MySQL, HTML & 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 , 🐧 Linux/Ubuntu , 🪟 Windows 7/10

**Skills** >\_ Unix CLI , 📄 Git , 🐙 JetBrains IDEs , </> Java , </> Python , </> C , </> C++ , </> Erlang , </> JavaScript (w/ React, jQuery, AJAX & Node.js) , </> TypeScript , 🐳 Docker , </> PHP , 🗄 MySQL , 📄 HTML , 📄 SCSS , </> Shell , </> Rust , </> R , 🍏 AppleScript , 📄 Markdown , 📄 LaTeX , 🔒 Cryptography , 📈 Mathematics

**Projects** 📄 Ciphertext Decryption (Java) | 📄 Git Bisect (Java & Maven) | 📄 IoT Server (Java & JDBC)  
📄 Data-Link Protocol (Java) | 📄 Lights Controller (Java & JUnit) | 📄 CSV To TXT Converter (Java)  
📄 Sudoku Solver (Java & JavaFX) | 📄 News Web Crawler (Python) | 📄 Sudoku Solver (Python)  
📄 CLI Address Book (C) | 📄 IoT BLE & Motion Detection (C++) | 📄 TCP Packets (Erlang)  
📄 Cipher Quiz (Python, C++ & Erlang) | 📄 My First OpenAPI (Java, OpenAPI & Docker-Compose)  
📄 CV Visualisation (React, D3.js, TypeScript & SCSS) | 📄 Simple Questionnaire (PHP, Laravel & MySQL)  
📄 My First Dockerised React Website (React, TypeScript, Docker, Docker-Compose, PHP & SCSS)  
📄 IoT Admin Web App (PHP, MySQL & CSS) | 📄 My First Website (PHP, HTML, CSS & jQuery)

**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++, 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%**

- (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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### **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

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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.