David W. Arnold

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I'm a computer science graduate (graduating June 2020 - available for employment 25th May, 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 & SCSS, 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 Git, HTML, CSS & SCSS, </> JavaScript (w/ React, jQuery, AJAX & Node.js), </> TypeScript, </> PHP, 🗄 MySQL, 🐳 Docker, </> Shell, </> Erlang, </> C, </> C++, </> Rust, </> Haskell, </> OCaml, </> R, AppleScript, Markdown, LaTeX, JetBrains IDEs, 🔒 Cryptography, 📈 Mathematics

Projects   My First Website (PHP, HTML, CSS, JavaScript & jQuery) | CSV to TXT Converter (Java)
Timestamp Media (AppleScript) | Ciphertext Decryption (Java) | Git Bisect (Java)
IoT BLE & Motion Detection Device (C++) | IoT Central Server (Java)
IoT Admin Web App (PHP, HTML, CSS & MySQL) | Sudoku Solver (Java & JavaFX)
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** - "Quantum Cryptography: Security for the Post-Quantum world": (Predicted grade: 1st)
  - Computer Networks and Communication (Java): (**92%** Coursework)
  - Computer Security and Cryptography (Java): (**89%** Coursework)
  - Internet of Things (C++, Java, PHP, HTML, CSS & MySQL): **70%**
  - Programming Language Implementation (OCaml & C): (**89%** Coursework)
  - Programming Languages: Application and Design (Java, Rust & Haskell): (Predicted grade: 1st)
  - (Masters) Data Mining and Knowledge Discovery (R): (**77%** Coursework)
- Year 2: **78%**
  - Algorithms, Correctness and Efficiency (Java): **80%**
  - Web Development (HTML, CSS, JavaScript, jQuery, AJAX & PHP): **95%**
  - Functional and Concurrent Programming (Erlang & 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%**

🏛 **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

Experience

💻 **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

🌲 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.