Zak G Rackham

✉ zak.g.rackham@gmail.com ☎(+44) (0)7595408155
🔗 www.zakgrackham.uk
Copper Beeches Fourth Avenue, Stanford-Le-Hope
Essex, SS17 8HN

Personal Profile

Computer Science graduate with experience in the automation industry as a consultant engineer. Seeking an IT development focused position within a system orientated role to further develop technology or applications thereof, to positively contribute towards a Company's collective success.

Education

BSc (Hons) in Computer Science, 1st Class, University of Portsmouth (2022)
- Modules include Database design and development; Programming principles, modalities and applications; Web foundations and web markup; Network fundamentals; Data structures and algorithms; Discrete Mathematics and functional programming; Theoretical computer science and computability; Computer architecture; 3D computer graphics and animation; Operating systems and internetworking; Software engineering theory and practice; Distributed systems and security; Internet of things and Robotics.

College - Sept 2016 - July 2019 (Relevant)
- **A-Levels:** Business(C)
- **BTEC:** Applied Law (Distinction), Information Technology (Distinction*)

School - Sept 2011 - June 2016 (Relevant)
- **GCSE's:** 7 obtained at grade A-C, Mathematics (B), English (B) and Science (A)

Relevant Experience

Consulting Engineer (Hybrid), June 2022 – Present
Keyence
- Working within a highly collaborative environment assisting sales engineers (SEs) and clients with technical detail necessary to accurately specify computer vision systems for automation considering client application requirements.
- Consulting with various system integrators and end users to ensure the success of applications working by proxy on behalf of Keyence UK.
- Responsible for programing proprietary software to meet the requirements of the client. Working within a logical single threaded flow applying algorithms for image analysis. Considering system architecture for I/O interfaces and asynchronous operation.
- Solely planning and executing seminars and webinars where appropriate for customer training and development.

- Developing bespoke strategies for client interaction in conjunction with SEs and management to assess and scope our support training structure to enhance technical understanding, competency and repeat business value.
- Managing internal projects to enhance Keyence procedure and policy.
- Hybrid working, Heathrow based office, regular client visits across mainland UK including at home working where appropriate.
- Clients worked for by proxy include; Jaguar Land Rover, Glaxo Smith Klyne, Dyson, Red Bull, Servomex, Amazon and various system integrators including: Harwin, Horizon Instruments and Huxley Bertram. All under NDA.

Technical sales representative, Oct 2018 – Aug 2019
Dixons Retail
- Flexible working around studies, managing sales of various IT hardware and SaaS products.
- Assisting with technical support when required by the needs of the business, basic troubleshooting, and fault identification.
- Working in compliance with DPR law whilst handling sensitive information such as bank cards and photo ID. To ensure all personal data collected is used in compliance with the law fairly and stored safely.
- Responsible for completing credit checks and acting appropriately on the result in a calm and sensitive manner.
- Handling system downtime appropriately and considerately to mitigate damage to reputation of the business.

Single consultation (Freelance)– Nov 2019 – Jan 2020
Monkey madness (play center)
- Maintenance and cleaning of desktop pc's, all in one windows machines, Linux (Ubuntu Server), DAC and Amp configuration. Intercommunication system installation.
- Software maintenance and upgrades, bloatware and adware removal, firewall configuration including virus and malware security.
- Ongoing mobile support with applications and general questions.
- Documentation produced for all operations performed, applications installed and replaced hardware. Detailed technical explanations produced for new systems.

Skills
- **Mathematical:** Functions; Methods**;** Data aggregation; Boolean logic & Discrete Mathematics.
- **English Language:** Thematic content & context; Syntax & semantics.
- **English Literature:** Comprehension of various historical interpretations and modern language. Ambiguity avoidance.
- **Autonomous self-management and intuition:** Competence in self-management organization and scheduling. Responsible for information collation revision and dissemination.
- **Software Development (Intermediate – Advanced):** C Variations, Python, various Object Orientated & Functional languages. Threaded and Multithreaded systems.

HTML & CSS (Java in-line). Databases; SQL variations. Linux distributions (Predominately Ubuntu Server). Experience with C-make and Catkin. **Game development:** Unity scripting, including VR. **Web Development:** HTML5, CSS3, XML, JavaScript, JSON. **Internet of Things:** Esp8266, Arduino, MQTT, UDP.

- **Robotics:** Omni-directional forward and inverse Kinematics, actuation, and sensing
- **Electronics & Computer Hardware:** Stepper & Servo motors. Standardized PC hardware. Experience with various proprietary hardware.
- **Analytics and reviews:** Data analytics; Trends, correlation and causation analysis.
- **Communication and Engagement:** Participation in group projects and activities in conjunction with senior staff and fellow peers including peer reviews and retrospectives.
- **Report compilation:** Gathering relevant data from first and secondhand sources to achieve a project goal.
- **External studies:** Studies and research conducted in spare time to supplement taught material, focus scoped to heterogeneous systems and overviews of various technology or according to job specification and business requirements.

Additional Information

- **Travel: Driving license holder** (4 years NCD, no points or convictions);
- **Familiarity with rail networks** (C2C, SWR, London Tube).
- **Salary requirements:** 40K – 50K preferable, seeking a fulfilling role rather than monetary gain.

Interests and Recreational Activities

- **Motorcycle enthusiast:** Involvement within the University of Portsmouth Motorcycle society, group rides and road safety management.
- **Gaming & audio-visual entertainment:** Avid video game player, with a deeper interest in design and creation within audio visual entertainment content and the application of technology within this sector.
- **Photography:** personal and semi-professional photography both true to life and artistic interpretations.
- **Watersport & extreme sports:** Fresh water wakeboarding, saltwater jet skiing, leisurely swimming for relaxation and exercise.
- **Tech industry affairs:** Enjoyment in keeping up to date with new developments and news within the Tech industry.

References available on request.