Mr Edward McKnight

https://github.com/EM-Creations/

A hard working Software Engineer with over 8 years of professional programming experience across multiple industries, working for both large and small businesses. With a proven track record of using extensive knowledge of a variety of modern web and desktop application technologies to problem solve and deliver projects independently and as part of a team.

Key Skills and Experience

- Over 8 years of programming experience, including:

  ◦ Java 8, 17, 21 Angular, SQL, Python, bash / shell, C++ and PHP

  ◦ Experience with server software and operating systems including: Ubuntu, RHEL and CentOS

  ◦ Strong emphasis on reliability and devops, JUnit 4 / 5, Cypress, Cucumber, Podman, SonarQube

  ◦ Contributions to open source community projects

Work Experience
Software Engineer, Director   Nov 2021 – Present
Morgan Stanley
- Working in Hedge Fund Services, specialising in Tax
- Java JDK 17, 21 and Spring Boot
- Podman containerised deployment with Kubernetes
- Angular front-end web development
- RHEL server management
- Sourcing requirements from users and resolving production issues
- Management experience: interviewing candidates and line manager for more junior members of staff

Developer   Aug 2019 – Nov 2021
Barclays
- Development of critical SaaS applications using a Spring back-end and Angular front-end handling multi-million GBP transactions daily
- Taking a lead role in application deployment to production environments
- Working on micro service architecture applications deployed on cloud environments

Software Engineer   Sep 2017 – Aug 2019
Thales UK
- Using embedded C++ 11 to update an existing defence industry project to include new functionality
- Utilising Qt to create dynamic user interfaces, which retrieved and displayed data over the network

- Working with Java and Spring Framework (Spring Boot) to create the back-end for an in-house work package management web application
- Exploited technologies such as PostgreSQL, Redux and React to create the front-end for an in-house web application with colleagues

Software Engineer Intern   Jun 2015 - Jun 2016
Thales UK
- Partook in daily stand-up AGILE meetings, weekly retrospectives and planning meetings
- Mastered Java's internationalisation (i18n) library to update a user interface to support multiple languages
- Learnt about security and safety considerations for defence industry software
- Worked as part of a team to deliver reliable software which met our customer's requirements

Web Developer   Jul 2012 - Aug 2013
Vibe Software Ltd
- Communicated with clients to discuss software specifications
- Developed back and front end functionality for websites using the LAMPP stack as well as other web technologies
- Carried out server maintenance to help ensure a high website uptime for clients
- Developed internal systems which greatly enhanced our ability to monitor the status of our servers and services

Education and Qualifications

University of Portsmouth   2013 - 2017
Software Engineering BSc (Hons)
Grade: 1st Class + David Callear Memorial Award for best educational project
- Getting usability into development environments
- Enterprise Web Architectures
- Data structures and algorithms
- Discrete mathematics and functional programming

Hitchin Boys' School Sixth Form   2009 - 2011
A Levels
Biology, Computing, History and Applied ICT

Hitchin Boys' School   2008 - 2009
9 GCSEs Grades A – C (including English and Maths)

Other Qualifications

IET   2017
- ICTTech accreditation held with the IET

IAM (Institute of Advanced Motorists) 2023
- MIAM accreditation held with IAM (Advanced Motorcyclist Qualification)

Interests and Activities

- Listening to podcasts and reading articles regarding cybersecurity, politics and finance
- Developing systems and programs for digital communities in my spare time, this helps to keep my skills up-to-date and informed of emerging technologies
- Investing in Green products and renewable energy infrastructure
- Charity work - Fostering rabbits for a local animal charity

References

References available on request