



ANDY BERRY

TECHNICAL ARCHITECT & SOFTWARE ENGINEER

A Software Engineer, Technical Architect & team lead with experience in JavaScript, Node.JS, HTML5, CSS3 and other web technologies. Working in Agile environments with a passion for building quality software; technical design and architecture; Object Oriented Development; testing & automation; Continuous Delivery and DevOps.

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SUMMARY

- A Software Engineer with 10 years professional experience, working in and leading Agile teams ranging from 3 to 10 engineers, using Scrum; Test Driven Development; and Pair Programming.
- Day-to-day experience writing source code; unit, acceptance & integration tests; and writing & maintaining build scripts & infrastructure.
- Experience in client-side and server-side technical and systems architecture for complex B2B and B2C SAAS platforms.
- A capable team member and team lead with experience leading and mentoring software development teams.
- Experience as line manager and career coach, managing several engineers across multiple teams.

KEY TECHNOLOGIES

- Development : JavaScript, HTML5, CSS3, LESS, SASS, NodeJS, SQL, PHP, Java
- Libraries & Frameworks : React, Apollo GraphQL, Gatsby, Ember, Laravel, jQuery, Mocha, Jest, JUnit, Flow
- Build Technologies and Servers : Webpack, Grunt, Gulp, Gradle, Ant, Maven
- Version Control : Git (incl. GitHub and BitBucket), Subversion, Perforce
- Continuous Integration Tools : BitBucket, Travis, Artifactory, Jenkins, ThoughtWorks GO
- Hosting & Infrastructure : Amazon AWS (incl. EC2, ECS, CloudFront, S3, Route 53, ElastiCache, RDS & CloudFormation), Docker, Terraform, Apache, Nginx, MySQL, Postgres, Varnish, Redis, Netlify
- Methodologies & Practices : Agile, Scrum, Kanban, Test Driven Development, Behaviour Driven Development, Pair Programming, Continuous Integration, Continuous Delivery, Continuous Deployment & DevOps

TECHNICAL COMPETENCIES

- Strong development skills using JavaScript, HTML5, CSS3, Java & PHP among other technologies.
- Proficient in writing varying levels of automation tests, including unit tests, acceptance tests and integration tests.
- Experience working in teams practicing Scrum and Kanban, using Continuous Integration and Continuous Deployment.
- Experience developing & managing highly performant, redundant, scalable web applications and websites.
- Strong build, Continuous Integration & Continuous Delivery knowledge.
- Competent in gathering and developing requirements for projects from small websites to a large Software Development kit & a complex SAAS platform.
- Competent in design and architecture, including in system architecture and both client-side & server-side technical architecture and database schema design.
- Experience in managing AWS cloud-based virtual machines and infrastructure including immutable Docker containers, EC2, CloudFront, S3, Route53, ElastiCache & RDS deployed using both CloudFormation and Terraform

TRAINING AND DEVELOPMENT

- Attended conferences throughout the year covering topics such as WebGL & WebAssembly, ES6 features, CI/CD, serverless architectures and hosting at scale.
- Participated in coaching training within Mudano covering the role as a coach and effective coaching methods (2018).
- Attended workshops run by Entrepreneurial Spark aimed at business leaders starting, or running, a small business (2016). Topics included building and leading a team, financial planning, business strategy and marketing.
- Completed the Scrum Alliance Certified Scrum Master course (2012).
- Attended a 3-day leadership and management course (2012) while leading a team, covering topics such as appraisals; coaching, disciplinary meetings & staff motivation.
- Undertook an intensive two-day systems architecture workshop (2010) delivered by IBM consultants and architects.

ACADEMIC OVERVIEW

2006 - 2010 University of Glasgow | Bachelor of Science (with Honours) in Computer Science

2004 - 2006 Sussex Downs Sixth Form College | 'A' level studies

CAREER OVERVIEW

Chief Technology Officer | June 2019 to Present | Mobilize Systems, Remote/Edinburgh

Designing the architecture and leading the engineering team in building a new serverless customer loyalty engine for several large retail companies.

Principal Engineer (informally acting Head of Engineering) | Oct 2018 to April 2019 | Mudano, Edinburgh

Responsible for overseeing all product engineering at Mudano and mentoring engineers within the product team. Lead the engineering team in good software engineering practices, ensured software quality and that sufficient processes & principles were in place. Ensured the architecture was fit for purpose and provided maximum flexibility to allow the product to evolve as required by the business.

Facilitated the building of a new API testing framework, restructuring the codebase and architecture to allow more team autonomy & independent releases and introduced an engineering career progression framework.

Sr. Software Engineer & Technical Architect | Oct 2017 to Oct 2018 | Mudano, Edinburgh

Responsible for all technical architecture and design within one of Mudano's development teams in addition to technical leadership and expertise within that development team. Also contributed more widely to the technical architecture across the product teams.

Fundamentally changed Mudano approaches testing & component-based development; and leading the architecture, infrastructure & technical design for the new version of Mudano's flagship product.

Chief Technology Officer / Principal Software Engineer | Dec 2015 to Oct 2017 | Agency Core, Edinburgh

Responsible for all development, maintenance, hosting & technical support for a Software as a Service (SAAS) single page app targeted at digital agencies. Supported the co-founders with technical expertise and provided support to our users.

Major achievements include migrating the existing manually deployed infrastructure to Amazon Web Services leveraging Docker to ensure an easy to deploy and immutable infrastructure; a large refactor of the existing codebase & architecture to ensure better performance, scalability & easier maintenance; and the development of several new major features on the platform.

IT Manager & Web Developer (Voluntary) | Oct 2009 to Present TimelessTime Ltd, Brighton

Designed, implemented and maintain a company website, blog and members area for a business and HR management consultancy. Developing online tools, making website updates as required and ensuring an, as near as possible, 100% uptime. Advise the company directors on website content and strategy, social media and marketing and possible avenues for growth.

Sr. Software Engineer; Technical Lead | Mar 2012 to Jun 2015; Jun 2015 to Dec 2015 | Caplin Systems Ltd, London

Technical Lead on the Open Source project BladeRunnerJS, a development toolkit and framework for building large scale WebApps. Working with and leading a small team of developers, responsible for the development of new features; the writing and maintenance of automated tests for both the server-side Java and client-side JavaScript libraries and tooling; and the writing and maintenance of the build scripts and automation tooling and infrastructure. Responsible for the technical architecture of the codebase and overseeing other developers on the team.

Previously lead Caplin's release engineering team, responsible for designing and implementing a new build infrastructure to allow the future release engineering team to easily automate the deployment; provisioning and monitoring of new build machines.

Graduate to Mid Level Software Engineer | Aug 2010 to March 2012 | Caplin Systems Ltd, London

OTHER DETAILS, EXPERIENCE & ACHIEVEMENTS

- o Member of The British Computer Society and The Institution of Engineering and Technology.
- o Holds a current Emergency First Aid at work certificate.
- o A qualified RYA advanced coastal dinghy sailing instructor, allowing management of a sail training centre and responsibility of all activities on the water.
- o Current clean driving licence. British citizen and passport holder.