

## .: Andrew Miller :.....: digital creative/geek/maker .:

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### PERSONAL DETAILS

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 Andrew Miller  
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 nanorepublica  
 @nanorepublica

### EMPLOYMENT

#### *Owner at akmiller technologies*

**Aug 2019 - Present**

Web design and development company based in Cambridge, UK. Also available for contracting work specialising in full-stack development and software architecture solutions.

*Skills:* Web Design, Web Development, Process Management.

#### *Head of Engineering at Founders4Schools*

**Mar 2018 - Jun 2019**

Responsible for all aspects of the Engineering team across both the Workfinder and the Founders4Schools product. This includes line managing up to six people, hiring and on-boarding new team members and leading on all aspects of engineering. This ranges from exploring and developing new partnerships to reimagining the current state of the platform and taking practical steps towards a vision while still delivering product features. Started a satellite office in Cambridge to match the growth of the team in the region. Part of the senior management team.

*Skills:* Recruitment, Process Management, Architecture, Leadership, Teamwork, Communication, Product Specification, Personal Development

#### *Technical Lead of Workfinder at Founders4Schools*

**Nov 2016 - Jun 2019**

Responsible for the technical design and implementation of the database and backend application APIs that serve the Workfinder apps (iOS and web). Implemented the first prototype of the web app for employers. Primary engineering contact with agencies who built the first prototype of the iOS app and web app. Pushed for the adoption of tools that ensure smooth communication across all business areas with a focus on flexibility and transparency.

*Skills:* Django, Python, Javascript, Rest API, Postgres, Celery (Redis), Elasticsearch, Architecture, Design, Heroku, Docker, Git, HTML, CSS, Agile, Partner management, ReactJS, Auth0

#### *Interim CTO at Founders4Schools*

**Apr 2017 - Nov 2017**

Led the engineering team for a short transition period where we lacked a permanent CTO. During this time we hosted two students on six month placements as well as growing the team from two to six staff. Led the regular technical meetings within the engineering team and was primary point of contact with the wider business and external meetings.

*Skills:* Recruitment, Process Management, Architecture, Leadership, Teamwork, Communication, Product Specification

#### *Full Stack Developer at Founders4Schools*

**Aug 2015 - Mar 2018**

Responsible for implementing changes across the whole Founders4Schools platform ranging from new features, bug fixes to maintaining the underlying infrastructure. Major achievements include transitioning between the Duedil V2 API to the Duedil V3 API, migrating the codebase from Python 2.7 to Python 3.6 and upgrading major dependencies to the latest stable versions. Responsible automating deployments to production.

*Skills:* Django, Python, REST API, Javascript, AngularJS, Postgres, Celery (Redis), Elasticsearch, Heroku, Architecture, CircleCI, Vagrant, HTML, CSS, Agile, Git

*Cloud Services Engineer at Ocado Technology* **Jan 2013 - Aug 2015**

Joined new the Cloud Services team, to facilitate the creation of the Ocado Smart Platform using the AWS and Google Cloud offerings. Experience with AWS, in particular Elastic Beanstalk, IAM, Cloudformation and AMI automation. Used the Apigee Edge platform to securely expose internal endpoints to apps running on Google. Worked on a hybrid cloud platform for new warehouse systems using Docker and Mesos to allow developers to deploy across cloud and on-premise environments. Responsible for reviewing CVs and interviewing new candidates for teams across the department.

*Skills:* AWS APIs (IAM, EC2, S3, Cloudformation, Elastic Beanstalk, ELB, STS), Google Cloud, Python 2, Django, Packer, Puppet, Marathon, Mesos, Consul, AWS Architecture, Agile, Docker, Git, Javascript, HTML, CSS, Apigee

EDUCATION

Imperial College London

*MEng, Information Systems Engineering* **Sept 2007 - July 2011**

Degree Class: 2.1

Other Courses

*Core Leadership at The C3 Academy* **Sept 2016 - July 2017**

*Google Cloud Qualified Developer* **Feb 2014**

*Human Computer Interaction on Coursera* **Sept - Nov 2012**

*Beginners Graphic Design at UAL: Central St. Martins* **Jan - Mar 2012**

NOTABLE  
PROJECTS

- System architecture design of the Workfinder app which facilitates the connection of young people to local businesses to apply for work experience placements outside of the traditional existing networks.
- Part of the Core Creative Team at The C3 Church, responsible for digital aspects of our ministries. This includes leading staff to use improved back office systems, rebuilding the primary website from scratch using GatsbyJS, building new sites as required and eliminating paper teaching notes in favour of an app based solution.
- Advisor on website design and implementation including myyellowbook.uk, ride-clean.cc and millsterscoffee.org
- Large collaborative effort focusing on the language evolution and leadership of independent agents within the setting of two player binary games, primarily the game of chicken.

OTHER SKILLS

Clean driving license since September 2007

HOBBIES AND  
INTERESTS

First time Dad. Enjoy reading, watching films, photography, games (board, card and video) and a relaxed pint at the pub. Enjoy outdoor pursuits such as climbing, skiing and cycling. Volunteer on the Creative and AV teams at my church. I always have a project on the go, currently a 365 photography project of my son

REFERENCES

Available on request