Aasis Vinayak

BSc, MSc, PhD

I am a full stack developer who specialises in cloud based solutions and primarily program in PHP and Java. I have extensive experience in the administration of Linux servers. I currently run the cloud-computing company Fly My Cloud Limited.

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WORK EXPERIENCE

Fly My Cloud Limited
Consultant

October 2015 – Present
London, UK

I have been working as a consultant at `Fly My Cloud Limited` since 2015, developing and deploying cloud-based solutions which are tailored to my clients' requirements. I have worked with clients in a variety of sectors including retail, legal and financial services. My clients range from start-ups to established enterprises. Some of the projects I have developed include:

- Middleware that facilitates the `auto-scaling` of cloud infrastructure;
- Custom `social media platforms`;
- `E-commerce platforms`; and
- Tools for `cloud migration` and `monitoring`.

WORK EXPERIENCE

University of Surrey
Teaching Assistant

2010-2014 (in addition to my PhD studies)
Surrey, UK

I worked as a teaching assistant and lab demonstrator for various undergraduate and post graduate programmes in computer science. I have taught `Object-oriented Software Engineering`, `Computer Networking`, `Web Publishing`, `Mobile Computing`, `Computer Networking`, `Collective Intelligence` and `Software Engineering Principles`.

TECHNOLOGIES

- `PHP` : `Laravel`, `Symphony`, `CakePHP` and `Codeigniter`.
- `Java` : `Java` desktop and web development.
- Databases : `MySQL`, `Oracle`, `Mongodb`, `Redis` and `Sqlite`.
- Testing : `Junit`, `PHPunit`, `Phpspec`, `Behat` and `Selenium`.
- Mobile platforms : `Android` and `iOS` app development.
- Cloud Platforms : `Google Cloud`, `Amazon AWS` and `Openshift`.
- `Javascript` : `Vue.js`, `Angular` and `jQuery`.
- Automation : `Ansible`, `Jenkins`, `Bash` scripts (e.g. automated `rsync` back-ups and `cron-job` based alert mechanisms).
- Server Operating Systems : `Linux` (`CentOS`, `Fedora` and `Ubuntu`), and `Windows Server 2012 r2`.
- Servers : `Apache`, `Nginx`, `IIS` and Node.js.
- Other tools : `Composer`, `NPM`, `Git`, `Bower`, `Gulp`, `Docker`, `PGP` and `Postfix`.
- APIs : `Google Cloud`, `AWS`, `Facebook`, `Stripe`, `PayPal`, `Mailchimp` and `Braintree`.

TECHNOLOGY EXPERIENCE

`PHP` : 8 years `Java` : 10 years `Linux` : 15 years `MySQL` : 10 years `Cloud Computing` : 5 years

- Modular Shopping Platform (that can be extended using custom plugins and themes): Built on top of `Laravel` -> Website, Source

- Desktop Blog Editor: Built using `Java` -> Website, Source

University of Surrey
PhD in Computing

2010 – 2015
Surrey, UK

Research Areas: `Mathematical modelling` , `Simulations` , `Evolutionary Algorithms` and `Game Theory`

University of Surrey
MSc in Internet Computing

2009 – 2010
Surrey, UK

Modules: `Networking` , `Computer Security` , `Cloud Computing` , `Ethical Hacking` , `Collective Intelligence` and `Enterprise System Development` .

- MSc in Internet Computing: Graduated first in the class
- PHD in Computing: Fully funded PhD studentship

- Web Security: Experience in penetration tests and implementing `SSLs` .
- Networking: Experience in `auto-scaling` , `CDNs` , `load balancing` , `sharding data` .
- Marketing technology products:
  - Using automated twitter posts the number of followers of `Fly My Cloud` was increased to 8000.
  - Developed an algorithm for posting across multiple platforms simultaneously. Advantages include: interesting stories are automatically posted, content is automatically translated into Mandarin before posting to `Weibo` .
  - Experience in `ad management` and `data analysis` .
  - Experience using marketing tools such as `Tweetdeck` and `Hootsuite` .
- Other tools: Adobe `Photoshop` , Adobe `Premiere Pro` , Adobe `Illustrator` and Adobe `After Effects` .
- Blogging: I have written for newspapers and magazines. This includes:
  - `Opensource for You` (The most popular open source magazine in Asia): Column on Shell programming and Linux Architecture (link).
  - `The Guardian` : Article about MOOCs and how they can be used to improve access to further education (link).

I volunteer for: The `Free Software Foundation` and `Wikipedia` .