

ARUN SHAH - SOFTWARE ENGINEER

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PROFILE

I am a BSc graduate that is currently completing a Masters degree in Software Engineering from City, University of London. This degree will be adding to my extensive prior portfolio of technical certificates in Networking, Cloud and Project management which I have successfully achieved over the past few years.

Additionally, I have prior B2B technical solutions Sales/Presales technical experience, so I am very knowledgeable in cloud infrastructure, DevOps and networking (Certified). From my portfolio page on <https://www.arunshah.co.uk> you can see many examples of my learning, prior projects and development activities.

They include Websites, PHP Projects, JavaScript Projects, Blockchain projects, useful applications, tools, & a Firefox Extension. I also demonstrate use of Amazon Web services and google cloud platforms. This portfolio will direct you to GitHub other social profiles.

As a person who loves software development and fantastic people skills, I am looking for a new home where I may contribute, focus, learn, win and grow. If you believe this would fit your organisation and help your business succeed, please reach out to me right now. My contact details are either above or available via the "contact me" page on <https://www.arunshah.co.uk>.

EDUCATION

| Level | Subject | Date |
|-------------------------------|---|------|
| MSc Software Eng. Modules: | MSc Software Engineering <i>City, University of London</i> <ul style="list-style-type: none">• Advanced Algorithms & Data Structures • Programming in C++ • Big Data• Cloud Computing • Software Design • Service Orientated Architecture• Advanced Programming: Concurrency. • Final Project: Data Visualisation. | 2018 |
| Professional | Microsoft Certified Professional (MCP) and Cisco CCNA Security/Firewall | 2015 |
| Professional | AQA Prince2 Foundation and Practitioner – Project Management | 2013 |
| Professional | Cisco Certified Network Associate Routing and Switching (CCNA) | 2012 |
| Professional | Cisco Certified Entry Network Technician | 2012 |
| BSc (Hons) | 2:1 – BSc Business and Management , <i>Brunel University, West London</i> | 2009 |
| Access Diploma | Digital Media Web design and Animation <i>Lambeth College, London</i> | 2005 |

SKILLS

Experience with: **Java, C/C++, Python, JavaScript**, HTML, CSS and SQL, Bash Scripting, Git/SVN
Web Development: **PHP**, MySQL, **JavaScript**, CSS, ASP.NET **WordPress**, Drupal.
Web Scripts: Magento, OScommerce, ZenCart, OpenCart, on Nginx /Apache2/MS IIS web servers.
Cloud/Networking: Cisco IOS, Mikrotik Routers and Switches, PfSense Firewall system.
(Certified CCNA + Security + MS Office 365), Palo Alto
Desktop & Server: CentOS, Debian/Ubuntu Windows Server PowerShell, Mac OSX, SSH/ CLI.
Proficient in Windows Server 2016, Ubuntu Server, AWS and Google Cloud.

PROFESSIONAL EXPERIENCE

- 2017 - Present** **Masters Student, MSc Software Engineering, City, University of London**
- Return to Further education as part of a change in career towards Software Development.
 - Eight Taught Modules and a Design and Build software development project.
 - **First Semester: Software Systems Design**, Including UML based Systems Design, Development templates and Development planning of Business Expense Management System.
 - **Programming with C++:** Implementing Shortest path Algorithms inc Dijkstra's in C++. **Advanced Algorithms and Data Structures:** Developing Tree's, Graphs, Computational Complexity and Mathematical Formulas, including efficient data storage retrieval best practices and avoiding exponential time growth.
 - Second Semester: **Big Data & ML:** Using Python/Spark/Hadoop to create Logistical Regression based Machine learning algorithms to predict Police stop and search outcomes.
 - **Cloud Computing:** Building cloud-based web application using Google App Engine, PaaS for Renty, Landlord/Tenant Portfolio and messaging Management with notifications.

- **Advanced Programming: Concurrency:** Java / LTS Process and thread modelling to avoid deadlocks and efficiently build/design resource allocation and utilisation in Java.
- **Service Orientated Architecture (JAVA):** Designing and building a Used car and Vehicle loan-based Web services using the Enterprise Service Bus (ESB), Tomcat Server & Axis2 to provide web services and responses.
- **Final Project:** Implementing web-based platform for data manipulation and data visualisation using Locality sensitive Treemap Data Structures for professionals to report Data.

2016 – 2017 Solutions Specialist 1yr Contract, Cortel, London

- Cortel corporate telecoms provide business mobile and fixed line telecoms services.
- I supported the sales team with the push towards cloud-based VoIP Products
- Support for pre-sales technical solution design and on-site meetings.
- Preparation of presentations, technical schematics and network diagrams for infrastructure roll out.

2015 – 2017 IT Freelancer, Approachable IT, London

- Working with businesses to optimise their web presence, online marketing and CRM & Cloud Systems.
- Providing hosted VoIP based Telecoms systems to UK Businesses.
- Database Digitisation and Disaster recovery systems (automatic remote backup)
- Analysing and implementing workflow into new Customer Relationship Manager systems (Salesforce)

2012 – 2015 Business Development Manager, Venus(M247) LONDON

- Venus provides dedicated leased lines hosted VoIP phone systems, cloud services and data centre co-location to business customers.
- My role was to generate new business. I regularly exceeded targets and was at the top of sales leaderboard on 33 out of 36 months.
- Record-breaking **£100K+** months twice. (colleague average £20k, target, £40k)
- Won **£146,000.00** new recurring revenue in May 2014 - **365%** of the target
- **£2,800,000.00** in new business achieved.

PORTFOLIO – also on <https://www.arunshah.co.uk>

Personal Projects:

- I host and manage a cloud-based PBX (Telephone system), Web Servers running Linux Debian, CentOS and Microsoft Windows server, Hyper-V Cluster, Several Web sites and a VPN Service.
- Manage a CRM for business use, have hosted email servers, and am familiar with SSL / Security.
- My laptop is designed to Triple boot Ubuntu, Windows 10, and MacOS (Dell Latitude), Which I use as a development environment for Apple, Java, and Machine learning Python & Web development.

My projects for Degree include:

- Implementation and design of a cloud-based framework (Landlord-Tenant communication platform – called Renty built in Laravel).
- Big Data Project using UK Government Data to calculate Police Stop and search outcomes from Age, Race and Location to identify possible discrimination. The tool has over 85% prediction accuracy.
- Movie recommendation engine: using Web-based GUI, and XML data import and user input for moods to make recommendations.

Other Projects include:

- An email marketing platform: using either Amazon Elastic Email or self-hosted email server to design and send email campaigns.
- Personal Customer Relationship Management: tool built in PHP and hosted on Linux with web interfaces. (Photographycrew.co.uk/crm/)
- Spotify Clone: hosts and plays music with user accounts and login/user account management.
- I have built many websites as projects. Example: photographycrew.co.uk, bridalsnaps.com and more.
- Projects completed as part of personal skill improvement:
- Inc: C++ w/QT Framework (Built Notepad clone, + Calculator) JS/NodeJS (Built to-do List)
- Java – Concurrency -> concurrent applet, BigData/Python -> Police Stop Search Predictor.
- Movie Mood Slider with JQuery + Many More.
- I also have all the usual graphic editing/ Office abilities for web design and the expected level of writing for a British Master's graduate.

Excellent References/examples of work available upon request.