Ugonna Nwakama

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EMPLOYMENT HISTORY

Truphone, Newark, NJ

Mobile Software Engineer (March 2013 - Now)

- Worked in a 3-person team to close a project, involving Asterisk PBX, successfully under extremely tight deadlines. Unforeseen circumstances shifted the deadline from 5 weeks to 2 weeks and we improved performance to close the project.
- Directed and encouraged the practice of using Jenkins Continuous Integration server with automated unit-testing and static code analysis within the NJ Labs team. This in turn encouraged better code quality and improved our test coverage.
- Developed iOS mobile applications and guided software design of one of Truphone Lab's mobile products.
- Co-designed the architecture for a mobile software platform that we developed within the Truphone Labs team.
- Worked with some vendors on providing mobile solutions that used the WISPr protocol.
- Developed requirements and technical documentation that helped move an internally developed product through a phase-gate process.
- Collaborated with co-workers from remote locations on new and existing mobile products.
- Decoupled the XMPP components of an existing application for reuse in future iOS development.
- Co-developed a gateway for an AAA server that receives packets from a RADIUS client but authenticates against a Diameter server.
- Wrote **Perl** scripts to extend functionality in an Asterisk PBX dial plan, through AGI.

Quanteq Technology Services, Ltd, Abuja, FCT

Software Developer (March 2009 - January 2012)

- Developed biometric recognition software for integration into statewide government staff enrollment systems using **C#** and **WPF** for front-end.
- Volunteered to write a **UNIX shell script** that automated and improved the company's workflow of capturing fingerprint images from paper-forms, with the help of *ImageMagick*. Prior to this, the company had to scan each form individually and manually crop out the fingerprint section.
- Wrote part of the backend logic for a central **AFIS server** that dispatched work to multiple nodes.
- Created an "emergency reporting" SMS-based application using a **MySQL** database and *mobilexdge* SMS gateway plugins.
- Co-developed the logic and frontend for smart card solutions used for statewide staff identification for the company's largest client.
- Developed the frontend and assisted in the business logic of a tax system successfully deployed by a state government, for its civil servants.
- Served as analyst and developer on a C# desktop application for a client. Successfully deployed the software and trained 50 of the client's staff. Wrote the technical and user documentation, including system designs.
- Led a software development team on frontend development with C# and **Java** on some projects**.**
- Developed mobile applications for internal enterprise use (**Android** platform).

- Provided business development services by developing technical proposals for projects.
- Trained clients on C# and **Java** database-oriented software development.
- Co-developed multiple in-house software experiments, including a facial recognition with photo alignment, using *OpenCV*.
- Mentored two new software developers who went on to become essential assets to the company.

TECHNICAL SKILLS

- Java/J2EE
- C# for WPF, Win RT and ASP
- Python with webapp2

- Android app development
- iOS app development
- HTML5 web development

EDUCATION

New Jersey Institute of Technology, Newark, NJ
Master's degree in Information Systems (January 2012 – December 2013)

Ahmadu Bello University, Zaria, Kaduna, Nigeria
Bachelor's degree in Computer Science (January 2005 - January 2009)

PERSONAL PROJECTS

(January 2009 - Present)
- Developed and designed the Windows Store app *Eduplanner*; http://goo.gl/pTODw
- Developed a **sentiment-analysis** and **web-crawler** bot that attempted to determine the popularity of consumer products around certain parts of the web via **semi-supervised machine learning**
  - Used **Twitter Search API** v1.0 to fetch tweets containing user sentiment of a product
  - Built a breadth-first web crawler to fetch journalistic media containing product sentiment
- Built an **augmented-reality Android app** that overlays geographic points-of-interests on a camera viewfinder
- Developed the server-side of an **open-source** tool that allows data transfer from browser to browser, or from browser to phone, before the days of Chrome and Firefox sync: http://goo.gl/qHiUu
- Designed and developed client-side UI & logic for a web application for a federal road agency. Co-developed the backend of the system, working as a consultant.

ASSOCIATIONS/VOLUNTEERISM

- Speaker/Member: Google Technology User Groups Abuja, Nigeria
  - Handled multiple presentations of the Android application framework to other developers.
- Member of the AEL Graduate Student National Honor Society
  - Awarded for having one of the highest academic performances and for exemplary leadership qualities among graduate students.
- Member: Java Users Group Abuja, Nigeria
  - Coordinated with Oracle to introduce Java 7 to developers in Abuja Nigeria.
  - Handled part of the logistics for the Java 7 introduction event
- Volunteer: Foundation for HIV & Kidney Dialysis Inc. NJ USA