Mbakwe Caleb

Software Engineer
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PROFESSIONAL SUMMARY

A Full Stack Engineer with a Backend Preference.
I enjoy solving problems and have solved problems across several sectors ranging from Media Streaming, where I helped in the development of a media streaming solution that had millions of users, to Health where I built a Health Information System which is in use by hospitals, to Education where I was part of a team that developed an eLearning suite of solutions which pioneered the first online MBA in Nigeria. I also built a solution used by over 40 churches across the world.
Other than writing code, I give back to the community by mentoring, offering training sessions and motivational speaking. I enjoy working with companies that are mission-driven. I can use the skills I have gathered in my experience to help you.

EXPERIENCE

Software Engineer | Google | Ontario, Canada   Present
Google is an internet company with a mission to organize the world's information, making it universally accessible and useful.
Key Achievements: Improving the underlying architecture powering underground internal tools.
<u>Technologies:</u> Python; Golang; Google Cloud Platform

Senior Full Stack Engineer | Top Hat | Ontario, Canada   2020
Top Hat's active learning software helps professors engage students in online, blended and face-to-face courses.
Key Achievements: Improving the performance of existing functionality and fixing bugs in the product.
<u>Technologies:</u> Python Django; Amazon AWS; Javascript React

Software Engineer | SoapBox | Ontario, Canada   2019 - 2020
Soapbox is an app built for people managers looking to have more productive one-on-ones and team meetings. Teams are able to create shared agendas, take meeting notes, collect feedback and assign next-steps all in one place. Integrations include Slack, Microsoft Teams, Google and more.
Key Achievements:
- Improving the performance of the product, for example, reduced the response time of crucial requests by 75%
- Developed a dashboard that the company now uses to get insights about user metrics and behaviors
<u>Technologies:</u> PHP Laravel; Amazon SQS; Redis; Javascript

Senior Developer | PlutoTv | California, USA   2019 - 2020
PlutoTV is an Internet-based TV platform owned by Viacom. PlutoTV runs on 14 platforms, including Apple TV, Android TV, Amazon Fire TV, Chromecast, Roku, and PlayStation consoles which reaches over 1 million users annually.
Key Achievements:
- Implementing new features that help improve our user experience, scalability and performance. For example, my actions reduced the memory requirements for our main services by 70% while increasing the speed of our workers
- Increasing our subclip precision during transcoding thus allowing us to place ads correctly. In particular, I designed and implemented the algorithm the company uses to convert timecode to milliseconds.
<u>Technologies:</u> Javascript (Nodejs, CanJS); Elasticsearch; Amazon SQS, ECS, EC2, S3; Redis

Senior Developer | Andela | Lagos, Nigeria   2017 - 2020
Andela is a talent accelerator. As a Senior Software Developer, I primarily work as a Lead Developer for one of Andela's clients and secondarily as a mentor for other Andela junior developers.
Key Responsibilities
- Designing, decomposing and prioritizing the tasks of the team with the intent to maximize the team's efficiency
- Mentoring junior developers, teaching algorithms, coding, and code performance improvement techniques
<u>Technologies:</u> Javascript (Nodejs, React, VueJS), Php Laravel

Full Stack Developer | Venture Garden Group | Lagos, Nigeria   2015 – 2017
Venture Garden Group is a conglomerate of companies. I worked with 3 of the sub-companies. I also lead the team responsible for developing software prototypes for all sub-companies. 2 out of 5 of our prototypes became full products.
Key Achievements:

- Developed a microservice powered platform that helps venture capitalists predict investments in their firms using polynomial regression. Backend services were built using Nodejs and Laravel (PHP) with AngularJS on the frontend.
- Developed an improved reporting tool for the Complaints and Response Unit of the Nigerian Police Force. Ensuring optimized database queries, indexing and caching as the police force was getting about 1000 cases per day.
- Lead the team that developed web, desktop and mobile versions of Vigilearn, an eLearning platform currently deployed for two Universities. The desktop and mobile apps can source data from an On The Go (OTG) device to enable offline learning. Both apps are powered by Javascript (Electronjs and Cordova).
- Developed Vigicode. A QR code authentication platform for school students. Created for both the web and mobile
- Developed a NodeJS eLibrary which uses full-text search to retrieve documents from a MongoDB database (NoSQL)

<u>Technologies:</u> Android, Cordova, Javascript(NodeJs, AngularJs, ElectronJs) C#, PHP (CodeIgniter, Laravel)

EDUCATION

BSC, Computer Science with Economics | Obafemi Awolowo University | Ile-Ife, Nigeria   2008 – 2014
1st class degree. CGPA: 4.73 (Best graduating student in a class of 150 students)

CERTIFICATIONS & COURSES

Introduction to Machine Learning | Coursera | 2018   Intro to Machine Learning | Udacity | 2018
Power Searching with Google | Google | 2014   Shaping Up with AngularJS | CodeSchool | 2015

PUBLICATIONS & AWARDS

- Mbakwe C. C, Oluwaranti O. A., Akapo D. F. (2015). RAPP - An Android application that uses Optical Character Recognition technology to detect Personal Identification Numbers in recharge cards, giving audio feedback of the PIN to the user and using the detected PIN to carry out other functions (http://code.caleb.com.ng/rapp/apk).
- Obafemi Awolowo University, 2014
  Best graduating student, department of computer science and engineering, Obafemi Awolowo University, class of 2014
- Mbakwe C. C., Akinade O. O, Odejobi O. A., Adebayo T., Oluokun A. and Olayemi O. (2013). IFE-DICO - A Multilingual Dictionary for the Major Nigerian Languages. Linguistics and the Glocalisation of African Languages for Sustainable Development: A Festschrift in Honour of Prof. Kola Owolabi. University Akada: Ibadan
- Etisalat Nigeria, 2011
  Merit Award of Excellence in Obafemi Awolowo University

ADDITIONAL ACTIVITIES

Full Stack (Javascript and Python) Software Development Mentor, CodeInstitute | CodeInstitute | Dublin, Ireland   2020
Web development training facilitator, Microsoft Andela Learning Community | Andela, Microsoft | Lagos, Nigeria   2018
Program facilitator, She Codes Africa | Venture Garden Group | Lagos, Nigeria   2017
Program Facilitator, Garden Developer Community Hackathon | Venture Garden Group | Lagos, Nigeria   2016
Java and Android development facilitator, Code camp | Co-Creation Hub | Lagos, Nigeria   2014
Google Student Ambassador | Google | Lagos, Nigeria   2013

PROFILES

LinkedIn: *http://www.linkedin.com/in/calebmbakwe*   Personal Website: *http://caleb.com.ng*
Twitter: *https://twitter.com/caleb_mbakwe*   Github: *https://github.com/caleboau2012*
StackOverflow: *https://stackoverflow.com/users/4014552/caleb-mbakwe*   Blog: *https://medium.com/@caleb.mbakwe*