

Simeon BABATUNDE

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Career Summary and Objective

A resourceful data engineer and embedded systems researcher. Passionate and dynamic, with hands-on experience in Internet of Things (IoT), big data analytics and software engineering. Interested in building tools and technologies that enable tiny batteryless sensors to power the intelligent IoT. Working toward becoming a research leader in the emerging fields of AI and IoT.

Professional Experience

Lead Graduate Teaching Assistant **Aug. 2017 – Present**
School of Computing, Clemson University, – Clemson, SC, USA.

- A member of the PERSIST research laboratory. Currently researching efficient communication protocol for tiny batteryless sensors.
- Coordinate TAs and assist course instructor in ensuring seamless content delivery.
- Hold laboratory sessions, office hours, and help students to master class materials on C/C++ programming.

Data Engineer **Dec. 2015 – Jul. 2017**
Venture Garden Group, – Oregun, Lagos State, Nigeria.

- Developed and managed the first Enterprise Data Hub (EDH) built on Apache Hadoop ecosystem.
- Powered the data driven governance initiative in Nigeria through advanced and predictive analytics.
- Identified business problems to be solved with analytics and communicated findings to business decision makers.
- Won the first data science boot camp competition.

Software Developer & Data Analytics Researcher **Aug. 2014 – Nov. 2015**
Splashers Technologies Limited, – Isheri North, Lagos State, Nigeria.

- Team Lead, Mobile Application Development. Won the Outstanding Contribution to Consolidation Goals Award, October 2015.
- Developed the first mobile solution for financial settlement among key stakeholders within the Nigerian power sector.
- Ensured new members of the mobile development team were trained and mentored on adoption and utilization of key technologies used by the team.

Academic Qualifications

- **Doctor of Philosophy, Computer Science** **2017 – 2022** (Anticipated)
Clemson University – Clemson, South Carolina, USA.
- **Bachelor of Science, Computer Engineering** **Sep. 2014**
Obafemi Awolowo University – Ile Ife, Osun State, Nigeria.
 - ✓ First Class Honors, CGPA of 4.6 on a 5.0 scale
 - ✓ Second best graduating student in the department of Computer Engineering.
- **National Diploma, Electrical and Electronics Engineering** **Sep. 2008**
Federal Polytechnic Ilaro – Ogun State, Nigeria.
Distinction, 3.8 CGPA on a 4.0 scale. Graduated as the Best Engineering Student.

Selected Technical Skills

- **Programming Languages:** Proficient in C, Python, Java; comfortable with R, C++, Javascript, and SQL.
- **Tools and Technologies:** Autodesk Eagle, TI MSP430, Hadoop, ELK stack (ElasticSearch-Logstash-Kibana), Apache Spark, Sqoop, Hive, Pig, Kafka, Flume, Scikit-learn, Jupyter Notebook, StreamSets Data collector, Android, Nodejs, Django and LaTeX.
- **Version Control Systems:** Git, Subversion and Mercurial.

Selected Projects

- **UV Risk Detection and Prevention:** A wearable device that informs the user about the current and cumulative UV rays exposure level ([Github](#)).
- **Clemson Gameday Queue Warning System:** A customized queue warning system modeled using software verification and validation tools (AADL) and techniques ([Github](#)).
- **Autonomous Line Following Robot:** Built with the most basic electronic components ([YouTube](#)).

Extracurricular Experience

- **Upsilon Pi Epsilon (CS Honor Society):** Participated in the outreach program (robotics and coding camp) for elementary students at Forest Acres Elementary, Easley.
- Student Member, **Association for Computing Machinery (ACM)**, and **Engineers without Borders**, Clemson chapter.
- Active Member, School of Computing Graduate Students Association.
- Johns Hopkins University trained data scientist, through the massive open online course (Coursera).
- PMPI trained project management professional, with seasoned experience managing small and medium scale projects.