

# Simeon BABATUNDE

423 Lindsay Road, Unit 509, Clemson, SC 29631, USA | [babatunde.simeon@gmail.com](mailto:babatunde.simeon@gmail.com) | +1 (864) 650-2697 | <http://simeonbabatunde.com>

## Career Summary

---

A second year PhD student in Computer Science with a background in embedded systems, software and data engineering. Interested in building tools and technologies that enable tiny batteryless sensors to power intelligent IoT. Working towards becoming a research leader in the emerging fields of AI and IoT.

## Professional Experience

---

### Graduate Research Assistant

Aug. 2017 – Present

**PERSIST Research Lab, Clemson University**, – Clemson, SC, USA.

- Researching efficient communication protocols for tiny batteryless sensors.
- Lead research works on networking for intermittently powered devices.

### Graduate Teaching Assistant

Aug. 2017 – Present

**School of Computing, Clemson University**, – Clemson, SC, USA.

- Lead TA for CPSC 1071 (Programming Techniques and Methodology).
- Topics include structured programming, program design and implementation techniques, program testing and verification, basic data structures and analysis of algorithms using C and C++.
- Hold laboratory sessions, office hours, and coordinate other TA's in ensuring seamless content delivery.
- Lecture instructor: Catherine Hochrine.

### 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, Flask and LaTeX.
- **Version Control Systems:** Git, Subversion and Mercurial.
- **Certifications:** Data Science Specialization, Johns Hopkins University (Coursera).

### Selected Projects

---

- **UV Risk Detection and Prevention:** A wearable device that informs the user about the current and cumulative UV rays exposure level ([Github](#)).
- **Private Object Detection in Images using YOLO:** A private and public object detection program built on yolov3 and darknet ([Github](#)).
- **Packet Sniffing and Spoofing:** A sniffer and spoofing program implemented using pcap library and raw socket in C ([Github](#)).
- **Clemson Game day 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.
- **Association for Computing Machinery (ACM):** Student member.
- **Engineers without Borders:** Active member, Clemson chapter.
- **School of Computing Graduate Students Association (Clemson):** Active member.