

# ANTHONY AWULEY

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## Professional Summary

Versatile Machine Learning and Software Engineer versed in machine learning algorithms, data structures, data collection, analysis, and software engineering principles. Self-directed leader who fosters a collaborative and supportive team environment.

## Accomplishments

- I designed and developed ALPS, Genetic Algorithm, Genetic Programming, Ant Algorithms for Machine Learning, Feature Selection, Classification, Computer Vision, Regression and Data Mining.
- I served as a lead developer in the design and development of a system for processing bulk telecommunication subscription data, bulk SMS and Mobile Number Porting data using PHP, Bash shell scripting and Pearl.
- I have an IEEE CEC publication in Feature Selection and Classification.
- Founding member of Globe Software Ghana Ltd.

## Skills

- Computational Intelligence, Evolutionary Computation, Genetic Programming
- Hadoop and MapReduce,
- Deep Learning
- Shell scripting
- Machine Learning
- Amazon AWS
- Java, C++, PHP, Python, Shell Scripting
- JavaScript, NodeJS, JSON
- SQL, MySQL, Mongo DB
- Git, Jira
- API design knowledge
- MVC, Laravel, Code Igniter

## Publications

- A. Awuley and B.J. Ross “Feature Selection and Classification Using Age Layered Population Structure Genetic Programming” In Proceedings of the IEEE Congress on Evolutionary Computation (CEC 2016), pages 2417–2426, IEEE Press, 2016

## Work History

**Web Developer**, 04/2016 to Current

**BHS Consultants** – Toronto, ON

- Wrote maintainable and extensible code with over a quarter of a billion subscribers in a team environment.
- Redesigned existing PBX Billing system software to correct errors, upgrade interfaces and improve performance.
- Consulted regularly with customers on project status, proposals and technical issues. E.g. iHeartMedia, Clear Channel, IBI, Kaching, Team Solutions etc
- Researched, designed and implemented scalable PHP, MySQL, Node JS REST API applications for information identification, extraction, analysis, retrieval and indexing.
- Worked effectively with design teams to ensure software solutions elevated client side experience.
- Worked closely with other team members to plan, design and develop robust high-traffic web-based applications in a timely manner.

**Research Assistant**, 08/2015 to Current

**Brock University** – St. Catharines, ON

- Modified existing [www.cariboutests.com](http://www.cariboutests.com) backend application to correct errors and improve performance.
- Implemented C++ grammar parser designs, including experimentation and multiple iterations for an automatic theorem parser.

- Wrote maintainable and extensible PHP, MySQL code in a team environment.

#### **Graduate Teaching Assistant, 09/2013 to 04/2016**

**Brock University** – St. Catharines, ON

- Lab Demonstrator/Marker/Grader for 9 different undergraduate computer science courses.
- I handled Labs and marked courses in Java, PHP, MySQL, C++, C

#### **Computer Programmer, 01/2015 to 03/2015**

**Niagara College** – Niagara, ON

- Designed and developed Precision Agriculture's web portal computer software applications.
- I developed a super-fast C++ and PHP GIS & csv data analytics engine for processing large agricultural GIS data to aid in sustainable food production.

#### **Core Network Engineer, 01/2010 to 07/2013**

**Glo Mobile Ghana** – Accra, Accra

- As a team lead, performed System Support and Optimization, Operations and Maintenance of Alcatel Lucent Next Generation Network Unix nodes such as: HLR, SDM, WCS, MGW, and Performance Technologies STP.
- Configuration and Routing of Next Generation Core Network Nodes in Ghana and Nigeria.
- I performed daily network quality optimization tasks as well as ensuring 24/7 uptime service availability.
- Designed and developed bash shell scripts computer software and web applications to facilitate processing of bulk subscriber data and SMS data.

### **Education**

#### **Master of Science: Computer Science , 2016**

**Brock University** - St. Catharines

- Recipient of Graduate, International, Research and UHIP Fellowships
- Research Areas: Computer vision, Classification, Feature selection, Prediction, Pattern recognition, Scheduling, Combinatorial and numerical optimizations, Parallel Algorithms, Genetic Programming, Evolutionary Computation.
- Thesis and IEEE CEC publication: Feature Selection and Classification Using ALPS Genetic Programming
- Scholarships and Fellowships: Graduate, International, Research and UHIP Fellowships at Brock University.

#### **Bachelor of Science: Computer Engineering, 2009**

**University of Ghana** - Accra

- Computational Science and Engineering coursework
- Designed and developed FPGA based Software Defined Radio
- 3.65 GPA and 5 Times Recipient of Deans Honor List
- I designed and developed a complete hospital management system.

### **Additional Information**

[www.anthonyawuley.com](http://www.anthonyawuley.com) | [linkedin.com/in/anthonyawuley](https://www.linkedin.com/in/anthonyawuley)