

Fabian Okeke N.

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EDUCATION

Cornell University, Information Science PhD [Computer Science, Minor] (Aug 2019).

Vanderbilt University, B.Eng, Computer Engineering (May 2014)

Fisk University, B.Sc, Computer Science (May 2014)

RESEARCH EXPERIENCE

IBM Research, Almaden

San Jose, CA

Research Assistant

05/15 – 08/15

- Built and implemented backend DB2 database for travel application together with frontend iOS app
- Integrated RESTful api for 3rd party developers to interact with travel application

Cornell Tech, Small Data Lab

New York, NY

Research Assistant

05/14 – 08/14

- Literature survey for language style matching and its effects on relationships between strangers as individuals or as groups.
- Developed offline algorithms to analyze and visualize correlation between users' locomotive data, text messages and email conversations.

Carnegie Mellon University, Electrical and Computer Engineering Department

Pittsburgh, PA

Research Assistant

05/13 – 08/13

- Reported at least once a week to supervisor on progress of two concurrent projects.
- Analyzed over 15 research papers and presented algorithms for latest Area Coverage and Network Bridging algorithms.
- Developed software and brainstormed constantly with team of 5 for solutions to challenging problems.

Vanderbilt University, School of Engineering

Nashville, TN

Gamification Research Assistant

01/13 – 05/13

- Performed independent research and reported bi-monthly to supervisor.
- Researched new technologies and built web based game to drive more user data for researchers already working on touch interaction with mobile phones.
- Submitted technical report with mathematical analysis on how researchers can utilize the power of mobile phone games to collect more engaging survey data.

Fisk University, Computer Science

Nashville, TN

Augmented Research Assistant

01/12 – 04/12

- Worked independently for multiple hours and reported bi-monthly to supervisor.
- Researched and presented on the application of Augmented Reality to on-campus tour in order to make tour-guides more exciting.
- Developed android application with over 4500 downloads and 4.5/5.0 average rating.

Fisk University, Computer Science

Nashville, TN

Ubiquitous Computing and Smart Home Researcher

10/11 – 06/12

- Performed independent research and met once a month with supervisor to report progress.
- Wrote 40-paged research survey on ubiquitous computing and its applications in smart home systems.
- Peer reviewed research papers submitted to Institute of Engineering and Technology (IET).

Case Western Reserve University, School of Engineering

Cleveland, OH

Robotics Research Assistant

05/10 – 07/10

- Worked independently for extended hours and reported weekly to supervisor.
- Built TCP network using Python on Server side and Java on Client Side on Linux OS.
- Integrated speech capabilities platform using CMU Sphinx4, Festival TTS and Espeak.

Fisk University, Physics Department

Nashville, TN

Research Assistant

02/10 – 05/10

- Self-tutored HTML, JavaScript, PHP and MySQL for web development and database management.
- Created login pages and designed database prototype for departmental journal publications.

Fisk University, Chemistry Department
Research Assistant

Nashville, TN
08/09 – 02/10

- Perused research documents in order to understand the fundamentals of Organolithium Carbenoids.
- Modelled complex compounds using Gaussian software and received supervisor's commendations.
- Ran multiple simulations even after laboratory hours in order to investigate Nickel-catalyzed reactions.

SCIENTIFIC PAPERS

1. **Fabian N. Okeke**, Wyatt Newman, "Development of the Speech Capabilities of a Tour Guide Robot." Proceedings of The National Conference On Undergraduate Research (NCUR) Ithaca College, New York (2011).
2. Lawrence M. Pratt, Stewart Voit, **Fabian N. Okeke**, and Nobuaki Kambe, "Nickel-catalyzed alkyl coupling reactions: evaluation of computational methods." *J. Phys. Chem. A*, 115, 2281–2290 (2011).
3. B. Ramachandran, Purnima Kharidehal, Lawrence M. Pratt, Stewart Voit, **Fabian N. Okeke**, and Monique Ewan, "Computational Strategies for Reactions of Aggregated and Solvated Organolithium Carbenoids," *J. Phys. Chem. A* 114, 8423-8433 (2010).

INDUSTRY EXPERIENCE

Google Inc. – Engineering Department (SPQO)
Abuse-Analyst (Database) Intern

Mountain View, CA
06/12 – 08/12

- Performed data analyses to discover trends in the use of Google+ which hosts **about 250 million users**.
- Organized biweekly team brainstorm meetings and provided weekly snippets on project progress.
- Implemented project recommendations which will improve the **efficiency of Abuse Analysts by 20%**.

Johnson and Johnson Inc. – Global Problem Management (ITS Division)
IT Intern

Raritan, NJ
06/11-08/11

- Designed two SharePoint websites to market the work process of Global Problem Management department.
- Investigated and analyzed about 200 critical incidents every month.
- Utilized ITIL framework knowledge in discovering and resolving root cause of problems.

HONORS AND AWARDS

- Eta Kappa Nu, Electrical and Computer Engineering Honor Society
- Beta Kappa Chi Honor Society for Science Majors
- Dean's List, Vanderbilt University – Fall 2012, Spring 2013.
- **Applied and received** Symantec NCWIT Student Seed Fund grant to support women in technology (2012)
- Best Research Award, Fisk 14th Research Symposium Presentation (2012).
- Presidential Scholar, Fisk University – Fall 2009, Spring 2011
- Provost Scholar, Fisk University – Spring 2010, Fall, 2012, Spring 2012
- ITIL Foundation V3 Certified, Loyalist Certification Services. July 2011.
- Awarded Resident Assistant of the Year (2011).
- The 19th Annual Intelligent Ground Vehicle Competition; Of the 54 participating teams from different countries, my team **emerged as fifth** in the JAUS network challenge of the competition (2010).
- Awarded **1st position** in FlyMajor Scholarship Award for HBCU's in Tennessee (2009)

LEADERSHIP EXPERIENCE

- Google Ambassador, acting as liaison between Google Inc. and **over 5000** college students (08/12-05/2013)
- President/Co-Founder Computer Science Club, Fisk University (08/11-08/12)
- Student Government Class Representative, Fisk University(08/10-08/11)
- Student Volunteer, ITS Department, Fisk University.(11/09-04/10) Over 200 hours
- Student Health Ambassador, Meharry HBCU Wellness Program (10/09 – 01/10)
- President of Campus Ministry, Fisk University (10/09 – 03/10)
- Participant in Leadership Summit Program by Kevin Powell (10/2009)

TEACHING EXPERIENCE

- Computer Science Tutor, Engineering School, Vanderbilt University (01/12-05/14)
- Math Tutor, LEAD Program, Fisk University (01/10-05/2012)

- Smith Craig head Charter School, Mentor (02/2010-04/2010)
- Math & French Tutor, THRUST Program, Fisk University (01/10-05/2013)

OTHER ACTIVITIES

- Vanderbilt Innovative and Entrepreneurial Society, Member (Spring 2013 – Present).
- African Student Union, Member (Fall 2012-13).
- National Society for Black Engineers (NSBE) Member (Fall 2012 – 13)
- Presenter in National Conference for Undergraduate Research, Ithaca, NY (2011)
- Participant in Supercomputing Conference, New Orleans, LA (2010)