

Kwadwo Adutwum

Software Developer, Nuclear/Mechanical Engineer, Researcher

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Education

Columbia University School of Engineering

Master of Science Degree, Mechanical Engineering

August 2014 – May 2016

New York City, New York, USA

University of Wisconsin

Senior Capstone Design Dual Enrolment

Spring 2014

Madison, Wisconsin, USA

South Carolina State University

Bachelor of Science Degree, Nuclear Engineering

2010–2014

Orangeburg, South Carolina, USA

Relevant Experience

Xcel Energy / Dominion Energy

Nuclear Design Engineer

October 2016 – July 2020

Minneapolis, MN & Richmond, VA USA

- Developed fuel design simulate models using front-end and back-end industry-grade software
- Implemented and streamlined fuel design core-follow tracking database integration

Columbia University Engineering Research Lab

Graduate Reserach and Teaching Assistant

August 2014 – February 2016

New York City, New York, USA

- Developed and implemented MATLAB Machine Learning Algorithm for spectral analysis
- Served as graduate teaching assistant for over 70 undergraduate engineering students

University of Wisconsin

Senior Capstone Designer

January 2014 – May 2014

Madison, Wisconsin, USA

- Developed entire hot cell containment in Monte-Carlo code for Solid Works 3-D model rendition

South Carolina State Univ. Math & Comp. Sci. Dept

Calculus and Engineering Mathematics Tutor

January 2011 – December 2013

Orangeburg, South Carolina, USA

- Taught Engineering Mathematics and Calculus for 3 years to over 50 students
- Engaged students in applying algorithmic problem-solving approach to Maths and Calculus

Key Software Engineering Projects in Progress

1. Nand2Tetris (Harware-Software Integration) - 6 months

- Integrated hardware-software computer architecture capturing elements of computing systems

2. The ODIN Project (Full-Stack Software Development) - 3 months

- Full-stack of technologies applied to responsive front-end and back-end development with databases

3. Designing Data-Intensive Applications - 6 months

- Distributed Systems project based on design of data-intensive applications by Martin Kleppmann

Techincal & Soft Skills

Computer Programming : Professional level fluency/proficiency in Python, Java, JavaScript, HTML & CSS

Hobbies & Interests : Soccer, Biking, Educational Outreach & Scholarship Mentoring, Teaching Programming

Leadership, Awards & Recognition : Vice President of NSBE Campus Engineering Society, Presidential Scholar, Dean's Award for Excellence, American Nuclear Society Honors Recognition, Mayor Appointed Commisioner

Muti-Lingual & International Travel : Languages:(English , Italian , Ghanaian); Travel:(UK, Poland, USA, Africa)