



KAWIKA BARABIN

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I am a nuclear-trained submarine officer concurrently pursuing an MBA and a Master of Science in Computer Science while working full-time as a Naval ROTC Instructor. I am a skilled full stack developer due to my passion of learning and applying new coding languages and techniques. In the future, I would like to apply my understanding of nuclear mechanics and computer programming to research and develop applications for quantum computing. I possess a Top Secret security clearance with satisfactory Single-Scope Background Investigation (SSBI).

NOTE: I've separated my resume into two parts: (1) all accolades relevant to computer science or information technology and (2) the rest of my work experiences.

SKILLS

- Microsoft Excel Formulas and Scripts
- Full Stack Developer
 - HTML, Javascript, AJAX, CSS, Node.js
 - PHP, SQL, MongoDB
 - Python, C++, C, Java, Bash
- Operating Systems
 - Linux, Windows, MacOS
 - Android, iOS
- Social Media
- Resource Distribution
- Communication Skills
- Process Improvement
- Academic Instruction
- Administration Organization
- Data Analytics
- Briefing and Presentation

RELEVANT CS/IT EXPERIENCE

11/2019 – PRESENT

ASSISTANT PROFESSOR OF NAVAL SCIENCE,

NAVAL ROTC, FLORIDA A&M UNIVERSITY

- NROTC Webmaster
 - Redesigned NROTC FAMU website (www.famu.edu/navyrotc).
 - Manage all IT systems for NROTC FAMU including user access, system updates, and network issues.

11/2016 – 11/2019

JUNIOR OFFICER, US NAVY - USS COLUMBIA (SSN 771)

- Basic Mission Reporter (BMR) (12/2017 – 05/2018)
 - BMR writes the submarines TOP SECRET/SCI mission reports that are then forwarded to the Submarine Commands and intelligence agencies.
 - Developed a python programs to collect and compile dynamic data from multiple sources to provide a better analytic tool to complete organizational goals. The submarine based its operational planning off of this python product.

- Social Media Coordinator (01/2017 – 11/2019)
 - Responsible for the social media account (Facebook) of the USS COLUMBIA (SSN 771), which raised awareness of the safe operations US submarines complete while operating a nuclear reactor, allowing the continuation of the Navy Nuclear Propulsion Program.
 - Created, recruited, trained, and supervised a small team of Sailors to manage the social media account.

05/2014 – 07/2014

INTERNSHIP, NAVAL RESEARCH LABS (WASHINGTON D.C.)

- Conducted research on how to apply machine learning, specifically supervised autonomy using reinforcement learning, to expand the capabilities of Predator drones auto-pilot feature – essentially enabling one pilot to “oversee” multiple Predator drones at once.

RELEVANT CS/IT EDUCATION

CURRENT | SPRING 2022

**MASTERS OF BUSINESS ADMINISTRATION
FLORIDA STATE UNIVERSITY, TALLAHASSEE, FL**

CURRENT | SPRING 2022

**MASTERS OF SCIENCE IN COMPUTER SCIENCE
FLORIDA A&M UNIVERSITY, TALLAHASSEE, FL**

MAY 2015

**BACHELOR OF SCIENCE | COMPUTER SCIENCE
UNITED STATES NAVAL ACADEMY, ANNAPOLIS, MD**

Graduated with a 3.25 GPA and commissioned as an officer in the US Navy.

MAY 2015

**BACHELOR OF SCIENCE | INFORMATION TECHNOLOGY
UNITED STATES NAVAL ACADEMY, ANNAPOLIS, MD**

PUBLICATIONS

AISTATS | 2016

UNWRAPPING ADMM: EFFICIENT DISTRIBUTED COMPUTING VIA TRANSPOSED REDUCTION | TOM GOLDSTEIN, GAVIN TAYLOR, KENT SAYRE, AND KAWIKA BARABIN

NIPS WORKSHOP ON MAKING SENSE OF BIG NEURAL DATA | 2015

DISTRIBUTED MACHINE LEARNING VIA TRANSPOSED REDUCTION | TOM GOLDSTEIN, GAVIN TAYLOR, KENT SAYRE, AND KAWIKA BARABIN

ICCRS | 2015

AN APPLICATION OF REINFORCEMENT LEARNING TO SUPERVISED AUTONOMY | GAVIN TAYLOR, KENT SAYRE, AND KAWIKA BARABIN

EXPERIENCE

11/2019 – PRESENT

ASSISTANT PROFESSOR OF NAVAL SCIENCE, NAVAL ROTC, FLORIDA A&M UNIVERSITY

- Instructor
 - Taught naval history to 14 second semester college freshmen.
 - Teach naval engineering and naval weapons systems to 8-10 college juniors.
- Academic Advisor
 - Academic Advisor to eight NROTC students, ensuring students meet educational requirements from their respective majors and NROTC.
- Nuclear Program Advisor
 - Recruit promising NROTC students to be nuclear trained for service on board US Navy submarines and aircraft carriers.
 - Train recruited NROTC students in calculus and physics in order to pass their technical interview with the head of the Navy Nuclear Propulsion Program.
- NROTC Webmaster
 - Redesigned [NROTC FAMU website](#).

11/2016 – 11/2019

JUNIOR OFFICER, US NAVY - USS COLUMBIA (SSN 771)

- Assistant Weapons Officer (07/2016 – 11/2019)
 - Responsible for operation, certification, maintenance and repair of all sonar, torpedo, missile and fire-control systems.
 - Responsible for the training and professional development of 50 enlisted technical experts.
 - Ensured network security and information assurance requirements were adhered to during network transition from TOP SECRET – SCI to UNCLASSIFIED.
- Assistant Senior Watch Officer (02/2019 – 11/2019)
 - Developed, maintained, and de-conflicted 13 supervisors' schedules; ensuring all training, maintenance, and evolutions were adequately supervised.
 - Developed and executed training for supervisors.
 - Mentored 10 junior supervisors -- ensuring their training period was conducted satisfactory and within the prescribed time.
- Anti-Terrorism / Force Protection Officer (12/2018 – 11/2019)
 - Responsible for all physical security of the submarine -- a \$3 billion national asset.
 - Coordinated, allocated, and employed resources to ensure security measures provide the appropriate level of protection for all applicable threats.
- Main Propulsion Assistant (11/2018 – 11/2019)
 - Responsible for the operation, care, and maintenance of the submarines' nuclear propulsion plant and its related auxiliaries systems.
 - Hand-picked to supervise 22 nuclear trained mechanics during a period of complex nuclear maintenance evolutions which required extensive training and preparation.
 - Oversaw the completion of over 100 complex nuclear maintenance evolutions safely and within the nuclear Navy's high standard. This directly contributed to the USS COLUMBIA being recognized as having the best Engineering Department -- and separately, the best submarine -- out of eleven fast attack submarines in 2018.

- Developed and managed a self-assessment and regulatory compliance program.
- Ship's Duty Officer / Officer of the Deck (04/2018 – 11/2019)
 - Shift manager responsible for all aspects of maintenance and operations of the submarine, while in-port and at sea, to ensure the submarine operated safely and effectively.
 - Supervised approximately 32 enlisted Sailors during a 24 hour shift totally over 3,000 hours.
 - Oversaw the completion of countless maintenance and evolutions during a shipyard period, completed by both Sailors and contracted Naval Shipyard civilian workers.
- Recreation Services Officer (04/2017 – 11/2019)
 - Organized, led, and promoted interests in recreational activities to maintain crew morale.
 - Opened a ship's store and developed procedures for effective accounting. The ship's store brought in a total profit of approximately \$16,000 in 6 months with a start-up cost of \$2,000.
 - Scored a 96% in 2019 from an outside agency auditing the financial accounting practices and accuracy -- an increase of 69% from 2016,.
- Engineering Duty Officer / Engineering Officer of the Watch (04/2017 – 11/2019)
 - Shift manager responsible for all aspects of maintenance and operations of the naval nuclear reactor and propulsion plant.
 - Supervised approximately 16 nuclear trained enlisted Sailors during a 24 hour shift totally over 1,000 logged hours.
 - Supervised the operations of a critical nuclear reactor plant while submerged at sea for over 7,000 logged hours.
- Social Media Coordinator (01/2017 – 11/2019)
 - Responsible for the social media account (Facebook) of the USS COLUMBIA (SSN 771), which raised awareness of the safe operations US Submarines complete while operating a nuclear reactor, allowing the continuation of the Navy Nuclear Propulsion Program.
 - Created, recruited, trained, and supervised a small team of two Sailors to manage the social media account.
- Reactor Controls Assistant (04/2017 – 11/2018)
 - Supervised the operation, maintenance, and repair of all electrical instruments, controls systems, and components dealing with the safety systems of the nuclear reactor plant.
 - Supervised 15 nuclear trained electronics technicians during a 6 month deployment in which multiple repairs had to be completed safely and efficiently in order to continue missions that were vital to national security.
 - Managed a self-assessment and regulatory compliance program to ensure operations, maintenance, and repairs on nuclear reactor safety systems were completed with zero defects. An examination board, certified by both the Department of Energy and Department of Navy, determined the program to be above average, compared to a fleet of over 100 nuclear reactor plants, and an increase from the previous assessment of average.

EDUCATION

OCTOBER 2018

**NAVY TECHNICAL | ADVANCED NAVY NUCLEAR PROPULSION
PROSPECTIVE NUCLEAR ENGINEER OFFICER, PEARL HARBOR, HI**

Completed Department of the Navy / Department of Energy Prospective Nuclear Engineer Officer examination, certifying qualification for duty as Chief Engineer of nuclear powered vessels.

SEPTEMBER 2016

**NAVY TECHNICAL | NAVY NUCLEAR PROPULSION
NUCLEAR POWER TRAINING UNIT, BALLSTON SPA, NY**

Trained to supervise the operations of the nuclear power plants onboard the US Navy's submarines safely. Qualified Engineering Officer of the Watch -- the senior most plant supervisor.

FEBRUARY 2016

**NAVY TECHNICAL | NAVY NUCLEAR PROPULSION FUNDAMENTALS
NAVY NUCLEAR POWER SCHOOL, CHARLESTON, SC**

Completed a rigorous six-month curriculum focused on the science and engineering fundamentals to the design, operation, and maintenance of naval nuclear propulsion plants.