Allen Lau

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EDUCATION

City College of New York
Degree:
 Master of Science
 Data Science and
 Engineering

Classes:
- Intro to Data Science
- Visual Analytics
- Applied Statistics

Purdue University
Degree:
 Bachelor of Science
 Mechanical Engineering

GPA: 3.80/4.00
Graduation: May 2019
Awards:
 Dean's List/Semester
 Honors

SKILLS
Programming:
- Python
- R
- SQL
- MATLAB
- C++
- MUMPS

Miscellaneous:
- Elementary Data Analysis
- Data Analytics
- Web Scraping

DATA SCIENCE PROJECTS & EXPERIENCES

- Strengthened and applied Python and R knowledge at the CCNY's Data Science Program to retrieve, clean, and manipulate data to perform data analysis, develop hypotheses, and draw conclusion (Aug 22 – Present)
- Spearhead implementation of cognitive computing models that utilize patient data to predict outcomes like sepsis or hospital fall risk to guide clinicians in their decisions to provide quality patient care (Oct 19 – Jun 22)
- Ensure successful reporting to the Centers of Medicare & Medicaid Services to demonstrate compliance of regulatory standards and confirm safe, effective, and timely patient care within the organization (Dec 19 – Jun 22)
- Oversee efforts to streamline hospital system COVID-19 responses, including identification of patients, monitor ventilator utilization, and counter increased workload due to surge of hospital admissions (Mar 20 – May 20)
- Developed data analysis tool and dynamic map to predict wind turbine failures, coordinate maintenance projects, and visually depict data models (May 17 – Aug 17)
- Increased accuracy of data in the asset management system by creating a tool to identify inconsistencies and missing information (May 17 – Aug 17)

WORK EXPERIENCE

Technical Solutions Engineer..(Aug 19 – Aug 22)
Epic Systems Corporation (Verona, WI)
- Partner with three healthcare systems to identify and manage projects, ensuring successful implementation and operationalization of new feature functionality with Epic's Electronic Medical Record (EMR) and the Clinical Documentation application
- Acted as a subject matter expert for the Wound Care application, which supports clinical workflows surrounding the intervention and treatment of wounds, to provide expertise and drive the success of the product
- Resolve and troubleshoot system build issues to maintain the system health of the EMR and to address the workflow concerns of stakeholders, while collaborating with a wide variety of functional teams

Biomechanics Research Assistant..(May 18 – Aug 18)
Temple University (Philadelphia, PA)
- Led the planning, design, and manufacture of a traumatic brain injury simulator, using SolidWorks and 3D printing, to aid in the research of Chronic Traumatic Encephalopathy (CTE)
- Conducted experiments using the brain injury simulator to repeatedly apply stress on neural stem cells to observe changes in their gene expression & viability

Wind Turbine Central Maintenance Engineer ....(May 17 – Aug 17)
NextEra Energy, INC. (Juno Beach, FL)
- Supported a Six Sigma Green Belt Project by proving reduction in time and cost to perform work orders

Fossil & Solar Power Plant Operations Engineer...................(May 16 – Aug 16)
NextEra Energy, INC. (Marcus Hook, PA)
- Developed Quality Improvement Story identifying root cause and countermeasures for the duct burner system in the combined cycle system
- Created guidelines and procedures to identify, troubleshoot, and implement countermeasures to address flame failure alarms in the heat recovery steam generator system
- Enhanced technical knowledge and teamwork skills by collaborating with field technicians and engineers on daily maintenance projects