

THAI NGHIEM

Software Engineer

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EXPERIENCE

Software Engineer

American Water

February 2019 - Present Camden, NJ

- Create a responsive Web application that automates water quality workers' daily tasks, which involve collecting and managing 6000 bacteria samples per month
- Computerize reporting progress, scheduling routines, entering field results, monitoring sample status processes, which can save 4 to 8 hours of work per week per user
- Serve as lead in Chlorine Residual Report project, enhancing Water Quality analytics application. Coordinate with business leaders and data team to ingest multiple data sources into a lake, then transform, validate, and visualize data as to enable users to make quick and informed decision
- Develop web applications using JavaScript UI libraries, PostgreSQL, and AWS platform tools. Oversee agile development tasks of Scrum Master, determining software features with team of 3; interacted with 10 clients on product feedback, completing project in a timely matter.

Hardware & Firmware Engineering Intern

Ellenby Technologies

May 2018 - August 2018 Woodbury Heights, NJ

- Designed and built the Optical-Scanning Circuit Board for Ellenby's latest Rolled-Coin Dispensing Safe. Devised firmware to support this board in C++
- Improved rolled-coin recognition precision in color and diameter by 200% compared to previous version, while reducing production cost
- Collected and analyzed scanning data using MATLAB to determine optimal scanning speed, light intensity, receiver gain, and board position

IT Support Specialist

Rowan University

Jan 2018 - May 2019 Glassboro, NJ

- Managed technical assistance to library's lab areas including technical troubleshooting and field hardware support, such as upgrading Windows versions, imaging, and migrating on lab's PCs
- Walked customers through step-by-step process for debugging technical issues. Assisted customers with anti-virus program installations

Augmented Reality Research Project

Rowan University

September 2017 - May 2019 Glassboro, NJ

- Materialized a patented technology (#9,626,568 USA), which reconstructs a 3-D object from 2-D images using image processing (filtering, transformation, feature extraction)
- Constructed a user-friendly UI on MATLAB and C++. Ported the developed MATLAB code to C++, allowing access on Android devices

EDUCATION

M.S. in Business Analytics

Temple University

August 2020 - Ongoing

B.S. in Electrical & Computer Engineering

Rowan University

December 2019 Suma Cum Laude

- First Place in Sumo Robotics Competition
- Tau Beta Pi - Engineering Honor Society
- Rowan Institute of Electrical and Electronics Engineers

METHODOLOGIES

Agile Test Driven Development

TECHNOLOGIES

Java JavaScript C/C++ CSS
HTML Python PostgreSQL Git
Verilog HDL MATLAB AppDynamics

Oscilloscopes FPGAs Breadboards
Function Generator Micro-controllers
Multi-meters

CERTIFICATION

AWS Technical Essentials

ExitCertified

June 2020

Spreadsheet Modeling Online Course

Havard Business Publishing

August 2020

Fundamentals of Deep Learning for Computer Vision

NVIDIA Deep Learning Institue

November 2018