

# THAI NGHIEM

## Software Engineer

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## EXPERIENCE

Ernst & Young - EY is one of the Big Four accounting firms

### Senior Technology Consultant

Aug 2022 - Present    Philadelphia, PA

- Lead the implementation of over 20 complex RPA processes across various departments, achieving an impressive annual time saving of 30,000 hours, resulting in millions of dollars in annual savings.
- Elevated product integrity as Solution Architect, standardizing code quality for 6 developers and crafting scalable automation blueprints.
- Innovated AI-driven solutions, such as NLP Virtual Agents and IDP Document Redaction, achieving 3,500 annual hours saved with expansion potential across various agencies.

American Water - Largest U.S. publicly traded water utility company

### Hyper/Intelligent-Automation Engineer

June 2021 - July 2022    Camden, NJ

- Created a scalable and sustainable Center of Excellent (CoE), including establishing coding standards, and best practices & processes.
- Leveraged the CoE and UiPath (VB.NET-based) for business process automation, driving marked enhancements in employee satisfaction and substantial cost reductions.

### Full-stack Java Software Engineer I, II

January 2019 - May 2021    Camden, NJ

- Developed and maintained a Java Web application optimizing water quality tasks, streamlining the collection and management of 6,000 monthly bacteria samples
- Led a team of junior web developers in creating web applications using JavaScript UI libraries, PostgreSQL, and AWS micro-services.
- Supervised Agile development as Scrum Master, coordinated with a team of 3 on feature decisions, and engaged with 10 clients for feedback, ensuring on-time project delivery.

Ellenby Technologies -Manufacturer/designer of electronic products

### Hardware & Firmware Engineering Intern

May 2018 - August 2018    Woodbury Heights, NJ

- Engineered the Optical-Scanning Circuit Board for Ellenby's Coin Dispensing Safe and developed its supporting firmware 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

Rowan University - Alzheimer's Disease Early Diagnosis Research

### Machine Learning Student Researcher

Fall 2018 - Spring 2019    Glassboro, NJ

- Devised machine learning techniques for the "Digital Clock Drawing Test", a non-invasive tool that diagnoses cognitive impairment from healthy to Alzheimer's Disease.
- Utilized three feature selection techniques - genetic algorithm, wrapper method, and information theory - to pinpoint crucial diagnostic features. Achieved diagnostic accuracy between 70% to 80%.

## EDUCATION

M.S. in Business Analytics

### Temple University

August 2020 - December 2019

GPA: 4.0

B.S. in Electrical & Computer Engineering

### Rowan University

December 2019    Suma Cum Laude

GPA: 3.98, President's list

First Place in IEEE Robotics Competition

Tau Beta Pi - Engineering Honor Society

Rowan Institute of Electrical and Electronics Engineers

## METHODOLOGIES

Agile    Test Driven Development

## TECHNOLOGIES

Java, JS, HTML, CSS, UiPath  
C/C++, Python, Git, MATLAB  
SQL, AppDynamics, Tableau



Oscilloscopes    FPGAs    Breadboards  
Function Generator    Micro-controllers  
Multi-meters    Postman    OCR  
Chrome DevTools    Visio  
Jupyter Notebook    NLP

## CERTIFICATIONS

AWS Certified Solution Architect Associate

[AWS training and certification](#)

AWS Certified Cloud Practitioner

[AWS training and certification](#)

UiPath Advanced RPA Developer

[certification@uipath.com](#)

Machine Learning

[Coursera - Stanford University](#)