

# ETHAN THOMAS UONG

## Professional Summary

An analytical software engineer who can bring a diverse set of skills and creative drive to software application development. Enthusiastic and articulated team player/leader dedicated to efficiently solve complex engineering problems. A passionate teacher who is committed to providing a supportive and engaging learning environment.

## Experience

### Raytheon Technologies

*Principal Software Engineer*

Brooklyn, NY

June 2018 – Present

- PATRIOT command and control interface using Java technology.
- Air Force's Kessel Run modernization project. Daily exposure to web applications' full stack ranging from React/TypeScript to Spring/Java and MySQL. Championed the practice of Test Driven Development (TDD) and Pair Programming (PP).
- Self-initiated and wrote a utility software that minimized code rework. Received company's achievement award for outstanding service.
- Led a small team in DevOps including setting up the CI/CD pipelines and onboarding team members with its tools.
- Designed and optimized an implementation of role-based access control (RBAC) for a missile defense C2 system.
- Identify production and non-production application issues and transform requirements into stipulations on a metrics dashboard program.
- Codesign a data collection architecture for digital forensic and warfighter training.
- Recipient of the company's prestigious Advanced Study Program scholarship.
- Currently holding an active DoD Secret security clearance.

### Michael Baker International

*Civil Associate II / Software Developer*

Moon Township, PA

June 2014 – April 2018

- Responsible for writing C++/C# code for AASHTOWARE Bridge Design and Bridge Rating (BrDR) software in .NET framework.
- Primary developer for an in-house project management tool that utilizes MVVM pattern and Entity framework.
- Led, assigned tasks, and supervised a user interface team of 9 members.
- Designed graphical user interfaces using WPF and XAML. Wrote patterns and paradigms so team members can base off and follow.
- Populated engineering reports in XML and XSLT languages.
- Designed and maintained model domains for data access.

### University of Pittsburgh, Robert Morris University, Ivy Tech Community College

*Adjunct Mathematics Faculty*

June 2015 – May 2019

- Taught and developed subject curriculum.
- Delivered lectures to undergraduate students on various subjects. Courses include applied calculus, linear algebra, differential equations, and numerical methods.
- Created an effective learning environment through the use of a variety of custom instructional methods.
- Over 100+ teaching evaluations available upon request.

## Education

### Master of Science in Computer Science

*Johns Hopkins University*

May 2022

### Master of Science in Computational Mechanics

*Carnegie Mellon University*

May 2014

### Bachelor of Science in Structural Engineering, Minor in Mathematics

*University of California, San Diego*

December 2012

## Personal Information



### Address

Fort Wayne, IN



### Phone

626-466-5656



### Email

[etuong@gmail.com](mailto:etuong@gmail.com)



### LinkedIn

[www.linkedin.com/in/ethan-uong-4066407a/](https://www.linkedin.com/in/ethan-uong-4066407a/)



### GitHub

<https://github.com/etuong>

## Technical Skills

### Languages

C/C++/C#

Java

Python

Kotlin

MATLAB

HTML/CSS

TypeScript

### Technologies

.NET Framework

Spring Framework

DevOps Tools

WPF

Angular / React

NodeJS

MySQL

## Certificate

- Oracle Certified Associate, Java SE 8 Programmer
- Engineering in Training (EIT) Certificate - State of California No. 139135

## Additional Information

### Personal Website

<https://www.ethanuong.com>

- Personal website designed and coded from scratch.
- Contains collection of coding projects.
- Written in Angular, React, and Bootstrap.

### Ask Ethan!

[Google Play](#)

- A syndicated advice column Android app that uses Google Firebase and supports many mobile computing features.

## Relevant Academic Courses

Cloud Computing, Big Data using Hadoop, Computer Architecture