

# Cuong Phan

Full Stack Software Engineer

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## SUMMARY

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- Results-driven and quick-learning software engineer with proven abilities to deliver innovative solutions.

## TECHNICAL SKILLS

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<b>Programming Languages</b>	C/C++, Python, C#, JavaScript, Swift, SQL, HTML, CSS
<b>Frameworks &amp; Libraries</b>	ASP .NET, Node.js, Bootstrap, jQuery, Angular, React, NUnit, PyTorch
<b>Tools &amp; Technologies</b>	Unix/Linux terminals, Git, SVN version control, MySQL, MongoDB, Azure, Docker

## PROFESSIONAL EXPERIENCE

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### Toshiba International Corporation (TIC) – Houston, Texas

#### Software Engineer

February 2021 – Present

- Innovate software monitoring solutions for data center backup power systems in a startup culture team.
- Develop a web application to enable users to track and monitor thousands of real-time data points per second.
- Design algorithms and features based on competitive & market analysis. Utilize Node.js and ApexCharts.js to build simulation software and customizable engineering analytical tools.
- Overcome embedded system constraints by implementing encoding/decoding algorithms to optimize space and data exchange rate. Reduce development time of new projects by 25% with code reusability practices.
- Engineer on-premises software to allow power system to communicate via industrial IoT devices and stream data to AWS cloud sever for event-based notification system.
- Perform end-to-end testing to maintain the Toshiba brand product quality while working closely with other developers across the globe to design solutions and implement Agile workflow and SDLC.

### Toshiba International Corporation (TIC) – Houston, Texas

#### Software Development Intern

June 2020 – February 2021

- Developed a responsive/ modern web UI for a new remote monitoring platform for energy storage systems.
- Enhanced users' real-time analytics by building new software features: 2D virtualization of Lithium-ion battery cells' voltages, efficient retrieval of 30k device logs, and decentralized/interconnected devices management
- Maximized sales potential by translating user feedback to an easy-to-understand and captivating UI design.

### PMC Group One – Houston, Texas

#### Software Engineer Intern

April – July 2020

- Simplified backend & database production deployment with docker containers. Improved queries efficiency by migrating from MySQL to MongoDB.
- Facilitated development process by setting a test server and revised API & database schema documentation.
- Analyzed clients' requirements and technical specifications in daily Scrum meetings.

## EDUCATION

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### Master of Science in Computer Science – University of Texas at Austin

Present - December 2023

### Bachelor of Science in Computer Science – University of Houston

January 2019 - August 2020

- Minor in Mathematics.
- Honors: Summa Cum Laude (Overall GPA: 3.9/4.0)

## PROJECT

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### Fuel Prices Quotes

[Demo](#)

- Designed database and back-end API for ASP.NET core application to provide clients with fuel quotes.
- Ensured software extensibility & maintainability by injecting a repository pattern layer in MVC architecture.
- Guaranteed software quality by writing unit tests with mocking, integration & end-end-end testing.

### Autonomous Drone

[Demo](#)

- Collaborated with a group of 5 to program the control codes for a drone to detect and follow a person autonomously.
- Solved face recognition, classification, tracking and video processing problems by utilizing OpenCV & ResNet.