

# SHANE KHANT SOE MOE

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## Experience

**Associate II Software Engineer**                      **OPIS by IHS Markit**                      **Feb 2020 - Present**

- Designs and builds cross-platform ASP.NET core microservices and Angular web applications for the oil business of the company which automate daily oil prices to upload and save for data analytics.
- Writes AWS Lambda functions (including scheduled cron event rules) in .NET Core and Python3.
- Improves the performance of applications and microservices by using Redis and secure local storage caches for redundant HTTP requests with an interval.
- Migrates legacy ASP.NET MVC and web APIs to new containerized ASP.NET core applications which run on AWS Elastic Container Service.
- Codes and sets up Azure DevOps YAML pipelines to seamlessly perform continuous integration, end to end testing and unit testing on both frontend and backend web applications.
- Writes Terraform scripts to automate AWS Infrastructure deployments and updates (such as ECS Fargates) from Azure DevOps YAML pipelines.
- Maintains and improves the performance of the existing legacy .NET framework and Angular web applications by refactoring and resolving software bugs in the source code.
- Writes the SQL scripts and stored procedures which include the business logic for the customized dashboard application of the business customer service.

**Fullstack Developer (Part-time)**                      **SpringGem Weather Information**                      **Oct 2019 - Dec 2019**

- Prototyped a cross-platform (for Android and iOS) mobile application which predicts the ice condition of the road with weather algorithms and helps truck drivers choose the less icy roads and highways in winters.
- Coded the mobile application using React Native and back-end API endpoints with Python Django framework.

**Teaching Assistant**                      **University of Maryland (CMSC433)**                      **Aug 2019 - Dec 2019**

- Worked as a teaching assistant for Java multithreading and concurrent programming class.
- Created course projects, exercises and exams along with other teaching assistants
- Helped students understand multithreading paradigms and debug their own code.

## Education

B.Sc in Computer Science (Minor: Statistics) - University of Maryland, College Park

## Projects

**Clinic Attendant (Engineers Choice Award Winner)** [[Please see here](#)]

A cross-platform (for both Alexa and Google) voice application which allows patients to check-in handsfree without in-person interactions or touching public surfaces such as tablets at clinics during the COVID19 pandemic. The application was built by using Jovo framework, GitHub Actions, AWS Lambda and AWS DynamoDB.

[Wildfire Alert](#) [\[Please see here\]](#)

An internet of things (IoT) system which alarms the authorities about forest fires and wildfires before the satellite could detect the fires. The system was built by using Node.js, Express.js, and Firebase in the backend, JQuery and Bootstrap in the frontend and Arduino and micro-sensors for the hardware.

### **Programming Languages**

C#, Java, JavaScript/TypeScript, Python

### **Technologies, Services & Frameworks**

Angular, AWS (Lambda, EC2, ECS, DynamoDB), Bootstrap, Docker, Express.js, Gatsby, Git, GitHub Actions, JQuery, Microsoft .NET, Node.js, React.js, Redis, Terraform, WordPress

### **Databases**

DynamoDB, Microsoft SQL Server, MongoDB

### **Awards & Achievements**

1. DrChrono Engineers Choice Award
2. Terp transfer scholarship
3. Dr. Harry Harden, Jr. Student Academic Excellence Award