# Thavy Thach

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## Professional Experience (Selected)

**Software Engineer** — IBM / 01-27-20 — Present

– Designed and developed **Angular** reporting tools and DevOps processes that proved to minimize bottlenecks in our client's international supply chain delivery schedule.

– Facilitated customization of systems by encouraging agile development team to adopt emerging standards, like **Java**, **Spring MVC**, **git flow**, and **Test Driven Development**, resulting in a 15% decrease in defects.

– Architecting **Angular** predictive mainteance application to support next generation logistical mainteance for the US ARMY, resulting in vehicle maintenance schedules being reduced by 200%.

**Computer Scientist** — Missile Defense / 07-22-19 — 12-20-19

– Implemented a dynamic reporting tool to drive better Interface Control Document (ICD) and requirement decisions which reduced manual labor lookup by 100%.

– Independently optimized the database design of the Nation's Battle Communications' database providing an improved normalized relational mapping.

**Data Engineering Intern** — Suplari / 02-05-19 — 05-04-19

– Substituted generic SSH login credentials with **AWS** IAM user system and **Terraform** to provide verbose logging & increase efficiency internally.

– Devised 15 master **PostgreSQL** queries, resulting in a set of packages customers can choose from to determine industry valued insights.

**Data Scientist Intern** — Honeywell / 06-25-18 — 08-31-18

– Delivered a labor visualization dashboard utilizing **R** and **Tableau** that easily identified $2.2M in opportunity where the Honeywell team can eliminate unnecessary spend.

– Designed and developed a new **Android** application that supports high-volume self-service traffic representing $500K in annual operational savings.

**Mixed Reality Intern** — HITLabNZ / 04-23-18 — 06-22-18

– Successfully launched a **mixed reality** mobile tour guide solution that attracted hundreds of Product Design Students.

– Designed and developed software pipelines involving **Android**, **iOS**, and **Head-Mount Display Devices**.

**Data Scientist Intern** — Suplari / 05-15-17 — 08-18-17

– Leveraged tools like **Python**, **Scikit-learn**, **Pandas**, **ElasticSearch** in conjunction with machine learning algorithms to improve vendor normalization algorithm.

– Developed 8 mathematical models to predict whether given domain is directory or website, impacting master supplier mappings across several customers.

– Reduced Sales Analyst workload by 90% by developing a multi-classification solution on datasets ranging from 50K to 1.5M rows.

**Junior Developer Intern** — DevHub / 05-15-16 — 08-26-16

– Fueled additional revenue stream through responsive customer support, generating $30k in new license sales.

– Designed and implemented dynamic repository web zone across all customers powered by the **Zendesk API**, **Python**, **Django**, and **MySQL**,

## Demonstrated Skills

AWS, Python, Java, Git, Bash, Flask, Android, HTML, JavaScript, TypeScript, C, C++, C#, Django, SciKit-Learn, Angular, React, Laravel, Node.JS, Unity, MySQL, SQLite3, MongoDB, Spring MVC, Oracle, Bamboo, Docker, Go.

## Project Experience (Selected)

**OutBox** — **2020** (Not Published)
**Role:** Architect, Software Engineer

– A Google inspired email service made in **Go** and **React**.

**MagusVR** — **2019** (http://bit.ly/MagusVR)
**Role:** Project Lead, Software Engineer

– Crafted a Virtual Reality game in **Unity** and **C#** to play a role as a magician, but with a twist of utilizing only physical hand gestures.

**UpCrate** — **2018** (http://bit.ly/UpCrate)
**Role:** Project Lead, Software Engineer

– Deployed and developed a **Laravel** web app to demonstrate **SQLite3** integration of a file-sharing schema among multiple users onto an **AWS EC2**.

**Reality Stocks** — **2018** (http://bit.ly/Reality-Stocks)
**Role:** Project Lead, Software Engineer

– Designed a **React** web app to allow hand gestures to navigate through financial stocks using the Leap Motion Hardware SDK.

**Embedded Helicopter** — **2018** (http://bit.ly/Embed-Heli)
**Role:** Software & Hardware Engineer

– Designed a **C**-based multitasking operating system to make a helicopter fly up an down.

**AITAR** — **2017** (http://bit.ly/ait-ar)
**Role:** Project Lead, Android Software Developer

– Used Vuforia AR SDK, **Firebase**, Fragments, **OpenGL** to superimpose a health bar onto our world to play attack the player using **Android**.

**Packaged Life** — **2017** (Non-Disclosure Agreement)
**Role:** Chief Technology Officer

– Integrated a mass email mechanism into **Python-Flask** ecosystem using AWS technologies, such as: **EC2**, **Elastic Beanstalk**, **Route53**, **DynamoDB**, **S3**, **Lambda**, **SES** into product backbone to scale 500+ users.

## Education

**University of Puget Sound** (Tacoma, WA, USA)
B.S. in **Computer Science**
May 2019

**Awards & Honors**

– AWS Developer Certification (On-Track: **02/2021**)
– IBM Patent Submission (**2020**)
– National DoD SMART Scholarship (**2018**, Top 7%)
– Benjamin A. Gilman Int'l Scholarship (**2017**, Top 24%)
– Horatio Alger Scholarship (**2015**, Top 15%)
– Washington State Opportunity Scholarship (**2015**)