Thavy Thach

thavythach@gmail.com — 253.844.5812 — linkedin/github: thavythach — website: https://thavy.tech

Professional Experience (Selected)

Software Engineer — IBM / 01-27-20 — Present
Cognitive & Analytics Software Engineer

– 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 software engineering team to adopt emerging standards for software application development architecture and tools, resulting in a 15% decrease in defects.

Computer Scientist — Missile Defense / 07-22-19 — 12-20-19
Cleared Software Guru in Defense & Space

– 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 C2BMC requirements database providing an improved normalized relational mapping from requirements to interfaces.

Data Engineering Intern — Suplari / 02-05-19 — 05-04-19
Architecting Custom Insights as a Package

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

– Developed Predictive insights that leverage AI technologies to find predictive information about a company's financial statements.

Data Scientist Intern — Honeywell / 06-25-18 — 08-31-18
Design & Analysis of the Aerospace E-Commerce Platform

– Designed and developed a labor visualization dashboard that easily identified $2.2M in opportunity where the Honeywell team can eliminate unnecessary spend.

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

Mixed Reality Intern — HITLabNZ / 04-23-18 — 06-22-18
Superimposition object prototyping in the real-world

– Successfully launched prototyped V1 of a mixed reality mobile tour guide solution to attract hundreds of prospective Product Design Students.

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

Data Scientist Intern I — Suplari / 05-15-17 — 08-18-17
Stealth Startup classification problem solver

– Combined both natural language processing and machine learning algorithms to design and improve previous 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
Engineering A Private-Label Web Platform Experience

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

– Designed and implemented dynamic repository web zone across all private labels using Zendesk API.

Demonstrated Skills

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

Project Experience (Selected)

OutBox — **2020** (Not Published)
Role: Architect, Software Engineer
Next Generation Email Service

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

MagusVR — **2019** (http://bit.ly/MagusVR)
Role: Project Lead, Software Engineer
Fantasy Role-Playing Virtual Reality Game

– Crafted a Virtual Reality game 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
Laravel File-Sharing Web Application Hosted On AWS EC2

– Deployed and developed a Laravel web app to demonstrate database 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
Financial Stock Navigation Using Only Hand Gestures

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

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

– Used Vuforia AR SDK, Firebase, Fragments 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
Educational Email Prototyping Solution

– Integrated AWS solutions into Python-Flask ecosystem, such as: EC2, Elastic Beanstalk, Route53, DynamoDB, S3, Lambda, SES into product backbone to attempt to scale 500+ users.

Education

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

Awards & Honors

– National Department of Defense SMART Scholarship

– Horatio Alger Scholarship

– Washington State Opportunity Scholarship

– Benjamin A. Gilman International Scholarship

Certificates

– AWS Developer (On-Track: **11/2020**)