

Timothy Vu

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Education

Cornell University School of Engineering

BS Computer Science

2020 - 2024

Ithaca, NY

Thomas Jefferson High School for Science and Technology

Jefferson Advanced Studies Diploma

2016-2020

Alexandria, VA

Experience

Modus Create Inc.

Software Development Intern

May 2020 – Aug 2020

Reston, VA

- > Applied knowledge of cloud computing and web development to work as a primary contributor on several Modus Labs R+D projects
- > Published technical blog articles and code tutorials on company blog page and Medium
- > Gained experience with AWS development (Lambda, DynamoDB, API Gateway), JavaScript, Vue, React, UI/UX design, Agile software lifecycles and unit testing

Naval Research Laboratory

Research Intern

June. 2020 – Aug. 2020

Washington, DC (remote)

- > Developed programs to optimize Fourier processing and improve existing signal processing routines for a novel Spatial Heterodyne Spectrometer (SHS) standoff detection system
- > Expanded knowledge of classification algorithms and machine learning technologies such as Tensorflow
- > Gained experience developing with Python and Java
- > Continued research from Summer 2019 as part of the highly selective Science and Engineering Apprenticeship Program (SEAP)

Naval Research Laboratory

Research Intern

Jun. 2019 – Aug. 2019

Washington, DC

- > Conducted extensive research with Raman and IR micro-spectroscopy
- > Developed a library database of Raman and IR spectra of materials of forensic interest (chemicals relating to the synthesis and composition of drugs and explosives)
- > Analyzed spectral data and optimized signal processing using Origin and Excel
- > Explored advantages and disadvantages in using both techniques for detection and identification

Projects

AWS Acme Instant Tunnel

<https://github.com/moduslabs/aws-acme-instant-tunnel>

- > AWS DevOps Tool for temporarily granting SSH permissions to AWS resource using AWS Lambda, DynamoDB, and API Gateway via the Serverless Framework.

Twutor

<https://twutor.herokuapp.com>

- > Full-stack student networking web app designed to connect struggling students with study groups and qualified peer tutors. Built using MERN stack (MongoDB, Express, React, Node.js)

Vueport Shop

<https://vueport-shop.netlify.app>

- > MVP E-commerce app built using Ionic framework, Vue 3 Beta, and Typescript

Skills

Languages Java, Python, JavaScript, SQL, MatLab, HTML, CSS

Technologies and Frameworks AWS, React, Vue, MongoDB, Node.js, ExpressJS, Keras, Tensorflow

IT Certifications AWS Certified Cloud Practitioner, AWS Certified Developer Associate